

REPORTS, RETURNS AND STATISTICS  
OF THE  
INLAND REVENUES  
OF THE  
DOMINION OF CANADA

FOR THE FISCAL YEAR ENDED MARCH 31

1913

PART III

ADULTERATION OF FOOD

*PRINTED BY ORDER OF PARLIAMENT*



OTTAWA  
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EXCELLENT MAJESTY  
1914







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REPORT

OF THE

DEPUTY MINISTER OF INLAND REVENUE

To the Hon. W. B. NANTEL,  
Minster of Inland Revenue.

SIR,—I have the honour to submit herewith a statement showing the work done by the Chief Analyst and staff at Ottawa for the year ending March 31, 1913.

Description.	Genuine.	Doubtful.	Adulterated.	Sold as Com-pound.	Total.	Remarks.
Lard.....	262	.....	2	1	268	3 contain water accidentally.
Butter... ..	152	1	4	.....	157	
Cider and Sweet Cider.....	35	1	29	.....	69	2 not sold as a ci-der, 2 concen-trated with sugar.
Baking Powders .....	115 up to stan-dard strength.	.....	*35 below stan-dard strength.	.....	150	
Registered Stock Feeds.....	64 up to guar-antee, 5 up to standard re-quirements.	1	†22 below guar-antee. ‡4 be-low standard requirements.	.....	138	41 Cattle Medi-cines, 1 un-registered ille-gal.
Fertilizer Inspection.....	313	.....	3	.....	324	1 not a fertilizer, 7 specially con-sidered.
Cocoas and Chocolate. ....	.....	.....	.....	.....	252	
Fruit Jams.....	.....	.....	.....	3	158	155 explained in Bulletin 244.
Vanilla Flavouring Extract..	13	.....	40 mixture....	27 artific'l	80	
Canned Tomatoes. ....	.....	.....	.....	.....	140	
Cheese ... ..	.....	.....	.....	.....	141	
Ground Black Pepper.....	223	11	45	1	280	
Bottled Pickles. ....	.....	.....	.....	.....	80	
Ground White Pepper .....	215	5	53	.....	273	
Ground Cinnamon and Cassia	198 apparently genuine.	14	12	.....	250	4 lost by mistake, 22 Ash abnor-mal.
Ground Cloves a study. ....	.....	.....	.....	.....	141	
Turpentine sold as a drug. ...	106	5	47	.....	158	
Bran Shorts and Chop Feed.	364	.....	32	.....	396	
Sweet Spirit of Nitre. ....	41	.....	32	.....	73	
Olive Oil .....	34	.....	2	.....	36	
Milk Powders and Condensed Milk.	.....	.....	.....	.....	30	

\* 35 below standard strength.    † 22 below guarantee.    ‡ 4 below standard requirements.

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Since the issue of the Report of last year, the Advisory Board, of which the Chief Analyst is Chairman, have devoted considerable time and work on the establishing of further standards for food products and the following have been duly legalized under the provisions of Section 26 of the Act.

Edible Oils.  
Edible Vegetable Oils.  
Standard for Commercial Turpentine.  
Fruit and Fruit Products.  
Flavouring Extracts.  
Canned Peas.  
Honey.  
Limits for Arsenic.

Further work in this direction is progressing, the result of which will be published in the next Annual Report.

The provisions of the "Commercial Feeding Stuffs Act" and the "Fertilizers Act" relative to the registration of brands have been, I believe, well carried out.

I have the honour to be, sir,

Your obedient servant,

WM. HIMSWORTH,

*Deputy Minister.*



SESSIONAL PAPER No. 14

## REPORT OF THE CHIEF ANALYST

OTTAWA, October 31, 1913.

WM. HIMSWORTH, Esq.,  
Deputy Minister,  
Inland Revenue Dept.,  
Ottawa.

SIR,—I have the honour to report upon the work done in these laboratories during the fiscal year ending March 31, 1913.

The total number of samples of Foods, Drugs and Fertilizers collected by our inspectors during the period named, is 3,609; and the results of analysis of these samples, together with full details concerning them, are published in Bulletins Nos. 237 to 257, both inclusive.

Number of Bulletin.	Subject.	Number of Samples.
237	Lard.....	268
238	Butter.....	157
239	Cider.....	69
240	Baking Powders.....	150
241	Stock Feeds (Registered).....	138
242	Fertilizers.....	324
243	Cocoa and Chocolate.....	252
244	Jams.....	158
245	Extract of Vanilla.....	80
246	Canned Tomatoes.....	140
247	Cheese.....	141
248	Black Pepper.....	280
249	Pickles.....	80
250	White Pepper.....	273
251	Cinnamon.....	250
252	Cloves.....	141
253	Turpentine.....	158
254	Bran, &c.....	396
255	Nitrous Ether.....	73
256	Olive Oil.....	36
257	Milk Powders.....	45
21 Bulletins.	Total samples in same.....	3,609

Other samples analysed, and reported directly to the Deputy Minister, are as follows:—

## OCCASIONAL SAMPLES, 1912-1913.

Drugs.	Samples.
Acetic Acid.....	67
Alcohol.....	3
Arsenate of Lead.....	1
Chloroform.....	10
Desinfectants.....	2
Dyes.....	2
Fusel Oil.....	4



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	Samples.
Kelp.. . . . .	1
Ketones.. . . . .	2
Linseed oil.. . . . .	6
Miscellaneous.. . . . .	10
Paints.. . . . .	2
Seidlitz powders.. . . . .	12
Soothing syrups.. . . . .	11
Turpentine.. . . . .	1
<b>Total.. . . . .</b>	<b>134</b>

Fertilizers.. . . . .	48
Baking powders.. . . . .	19
Beer.. . . . .	14
Biscuits.. . . . .	1
Brandy.. . . . .	1
Butter.. . . . .	59
Cider.. . . . .	4
Coal.. . . . .	1
Coffee.. . . . .	4
Egg Substitutes.. . . . .	1
Extracts.. . . . .	12
Feeding Stuffs.. . . . .	3
Fruit.. . . . .	2
Gin.. . . . .	1
Ginger.. . . . .	3
Grape Juice.. . . . .	1
Grease.. . . . .	1
Honey.. . . . .	1
Jam.. . . . .	11
Lard.. . . . .	4
Lemonade.. . . . .	1
Malt.. . . . .	1
Milk.. . . . .	3
Mustard.. . . . .	1
Salt.. . . . .	3
Sugar.. . . . .	6
Syrup.. . . . .	30
Tapioca.. . . . .	2
Tea.. . . . .	5
Vinegar.. . . . .	7
Water.. . . . .	26
Whiskey.. . . . .	4
Wine.. . . . .	5

**Total.. . . . . 419**

In addition to the above, we have tested Vinegar samples for  
Excise.. . . . . 374  
and have supplied the following standard solutions to the various offices:—

Winchesters Normal Soda.. . . . .	85
Phenolphthalein.. . . . .	16
Normal sulphuric acid.. . . . .	6

**Total.. . . . . 107**



## SESSIONAL PAPER No. 14

The staff of these Laboratories during the past year has consisted of the following:—

Chief Analyst.. . . . .	1
Assistants Analysts—	
(for the whole year).. . . . .	5
(for six months).. . . . .	2
Laboratory assistant.. . . . .	1
Recording clerk.. . . . .	1
Shipping clerk.. . . . .	1
Secretary.. . . . .	1
Messenger.. . . . .	1

The following standards for foods, etc., have been put into force by Order in Council, under authority of Section 26 of the Adulteration Act:—

## STANDARDS, ETC.—

Edible Oils (Vegetable) (G. 1002).. . . . .	April 19, 1912
Turpentine (G. 1022).. . . . .	June 6, 1912
Lard (Amendment to G. 1040).. . . . .	Oct. 22, 1912
Fruit and Fruit Products (G. 1044).. . . . .	Oct. 29, 1912
Flavouring Extracts (G. 1045).. . . . .	Oct. 29, 1912
Canned Peas (G. 1046).. . . . .	Oct. 29, 1912
Honey (G. 1047).. . . . .	Oct. 29, 1912
Limits for Arsenic (G. 1048).. . . . .	Nov. 4, 1912
Examinations (G. 1051).. . . . .	Nov. 23, 1912
Rearrangements of Food Inspection Districts.. . .	Sept. 10, 1912

Details of the work of the year are published as Bulletins Nos. 237 to 257, which are appended to this report.

A large portion of the time of one of the assistant Analysts (Mr. Lemoine) has been given to the advisory work connected with the Proprietary and Patent Medicines Act.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,  
*Chief Analyst.*



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DEPARTMENT OF INLAND REVENUE,

OTTAWA, April 9, 1912.

## MEMORANDUM.

Under the authority of an Order of His Royal Highness in Council, bearing date the twenty-eight day of March ultimo, and in virtue of the provisions of the twenty-sixth section of the 'Adulteration Act,' the following standards of quality have been established for 'Edible Vegetable Oils':—

## EDIBLE VEGETABLE OILS.

1. *Olive Oil, Sweet Oil*, is entirely a product of the fruit of the olive tree. .  
 Its specific gravity, at 15.5°C., is not less than 0.9140 nor more than 0.9196.  
 Its specific refractive index, at 15.5°C., is not less than 1.4700 nor more than 1.4718.  
 Its Maumene number lies between 42 and 52.  
 Its iodine absorption number (using the Hubl solution) lies between 77 per cent and 94 per cent.  
 Its saponification number (Koettstorfer number) lies between 185.0 and 195.0.  
 It does not contain above 3.5 per cent of free fatty acids.
2. *Cotton Seed Oil* is the oil obtained from the seeds of cotton plants and subjected to refining processes. It is free from rancidity; has specific gravity, at 15.5°C., between 0.9216 and 0.9300; has a refractive index (at 25°C.) not less than 1.4700 and not more than 1.4725, and an iodine number not less than 104 nor more than 110 (Hubl solution).
3. *Salad Oil*.—Either of the above may be sold as salad oil; but when Cotton Seed Oil is offered as Salad Oil, the fact that the article is Cotton Seed Oil must be declared on the label.
4. Mixtures of Cotton Seed Oil with Olive Oil must be so declared on the label.  
 The standards above defined take effect on the 13th May proximo.

W. J. GERALD,

*Deputy Minister.*

## PRIVY COUNCIL, CANADA.

AT THE GOVERNMENT HOUSE AT OTTAWA,

THURSDAY, the 6th day of June, 1912.

*Present:*

HIS ROYAL HIGHNESS THE GOVERNOR GENERAL IN COUNCIL.

His Royal Highness the Governor General in Council, in virtue of the provisions of Section 27 of Chapter 133, Revised Statutes of Canada, 1906, 'An Act respecting the Adulteration of Food and other Articles,' is pleased to order as follows:—

Turpentine is hereby added to Schedule 4 of the above described Act and the definition thereof shall be as hereinafter set forth:—

## STANDARDS FOR TURPENTINE.

I. When turpentine is sold as a drug, for medicinal purposes or to the order of a physician, it shall meet pharmacopoeal requirements as provided by section 7 of the said Act.



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II. When turpentine is sold under any other conditions than for purposes of medicine, as above, it shall meet the following requirements:—

- (1) It shall be entirely free from mineral oil.
- (2) Unless sold as wood turpentine, it shall absorb not less than 340 times its weight of iodine (Hubl Solution and Method). If sold as wood turpentine it shall absorb not less than 240 times its weight of iodine by same method.
- (3) The undissolved (unpolymerized) residue on treatment of 10cc with 40cc of a sulphuric acid containing 20 per cent of the fuming acid, shall not exceed 10 per cent by volume of the sample.
- (4) The refractive index of this residue shall be not less than 1.4950 at 20°C.
- (5) The refractive index of the sample at 20°C. shall lie between 1.4680 and 1.4730.
- (6) The specific gravity of the sample at 20°C. shall not be less than 0.860.
- (7) The initial boiling point shall not be lower than 150°C. under ordinary atmospheric pressure.
- (8) At least 75 per cent by volume shall distil below 160°C.
- (9) The residue on evaporation over a steam bath shall not exceed two (2) per cent.

RODOLPHE BOUDREAU,

*Clerk of the Privy Council.*

## DEPARTMENT OF INLAND REVENUE

OTTAWA, October 29, 1912.

## MEMORANDUM.

Under the authority of an Order of His Excellency the Deputy Governor General in Council, bearing date the 17th day of October, 1912, and in virtue of the provisions of the 26th Section of the 'Adulteration Act,' the following standards of quality have been established for 'Fruit and Fruit Products':

## FRUIT AND FRUIT PRODUCTS

1. Fruits are the clean, sound, edible, fleshy fructifications of plants, distinguished by their sweet, acid and ethereal flavours.
2. Dried fruit is the clean, sound product made by drying matured properly prepared fresh fruit in such a way as to take up no harmful substances; and conforms in name to the fruit used in its preparation.
3. Evaporated fruit is dried fruit in whose preparation artificial heat has been employed.
4. Evaporated Apples shall contain not more than 27 per cent of moisture.
5. Canned Fruit is the sound product made by sterilizing clean, sound, properly matured and prepared fresh fruit, by heating with or without sugar, and keeping in suitable clean, hermetically sealed containers; and conforms in name to the fruit used in its preparation.
6. Preserve is the sound product made from clean, sound, properly matured and prepared fresh fruit and sugar syrup, with or without spices and vinegar, and conforms in name to the fruit used in its preparation.
7. Jam, Marmalade, is the sound product made from clean, sound, properly matured and prepared fresh fruit or fruit pulp and sugar, with or without spices or vinegar, by boiling to a semi-solid consistence, and conforms in name to the fruit used in its preparation.
8. Fruit Butter is the sound product made from fruit juice, and clean, sound, properly matured and prepared fruit, boiled to a semi-solid mass of homogeneous



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consistence, with or without the addition of sugar and spices or vinegar, and conforms in name to the fruit used in its preparation.

9. Jelly, Fruit Jelly, is the sound, semi-solid geletinous product made by boiling clean, sound properly matured and prepared fresh fruit with water, concentrating the expressed and strained juice, to which sugar is added, and conforms in name to the fruit used in its preparation.

10. When Jam, Marmalade, Fruit Butter or Jelly contains other fruit or fruit juice than that which gives its special name to the article, the fact of the presence of such other fruit shall be stated upon the label, in lettering as large and as distinct as that used in naming the fruit principally present. This requirement does **not, however,** apply to the use of fruit juice, up to the amount of ten (10) per cent of the weight of the jam, etc., used instead of water in the manufacture of the jam, etc.

11. When the sugar in preserve, jam, marmalade, fruit butter or jelly is wholly or partially replaced by glucose, or by any other substitute for sugar, the fact of such substitution shall be stated upon the label in plain lettering.

The Standards above defined take effect on the 25th November, 1912.

WM. HIMSWORTH,  
*Acting Deputy Minister.*

DEPARTMENT OF INLAND REVENUE,  
OTTAWA, September 4, 1913.

SIR.—I beg to inform you that under an Order of His Excellency, the Administrator in Council, dated the 25th August, 1913, the Order in Council of the 17th October, 1912, establishing Standards for Fruit and Fruit Products has been amended by adding another Section thereto, under the title of Section 12, which reads as follows:—

#### SECTION 12.

‘When Jam, Jelly, Marmalade, etc., are prepared from two or more sorts of fruits, the first named fruit on the label shall be that which is present in largest amount: thus a jam made from Strawberries and Apples or Apple Pulp or Apple Jelly, shall be labelled as Strawberry and Apple Jam, only if the weight of Strawberries used exceeds the weight of Apples or Apple Pulp or Apple Jelly in the product; where the weight of Apples or Apple Pulp or Apple Jelly exceeds the weight of Strawberries used, the label shall read, ‘Apple and Strawberry Jam,’ or ‘Apple Jam flavoured with Strawberries’ or otherwise, in such a way as to make clear the fact that Strawberries are not the chief constituent.’

I remain, sir,

Your obedient servant,

WM. HIMSWORTH,  
*Deputy Minister.*



SESSIONAL PAPER No. 14\*

DEPARTMENT OF INLAND REVENUE,  
OTTAWA, October 29, 1912.

## MEMORANDUM.

Under the authority of an Order of His Excellency the Deputy Governor General in Council, bearing date the 17th day of October, 1912, and in virtue of the provisions of the 26th Section of the 'Adulteration Act' the following standards of quality have been established for 'Flavouring Extracts':—

## FLAVOURING EXTRACTS.

1. A Flavouring Extract intended for the purpose of flavouring food, is a solution of correct strength, as hereinafter defined, of sapid and odorous principles derived from an aromatic plant or parts of a plant, with or without its natural colouring matters, and conforms in name to the plant used in its preparations.

2. The usual solvents employed in the preparation of flavouring extracts are ethyl alcohol, water and glycerine. In the event of any other solvents than ethyl alcohol, water and glycerine being used, such solvents shall be harmless to health, and their names shall be plainly stated on the label.

3. Solutions of natural or synthetic preparations such as vanillin, coumarin, benzaldehyde, methyl salicylate or other sapid and odorous compounds, more or less resembling substances found in plants, or absolutely identical with these, if harmless to health, may be sold for flavouring purposes, if properly labelled so as to make it quite clear that they are not extracts as above defined; and preferably by the use of the word *Artificial* or *Imitation*.

4. If an extract be fortified or strengthened by having such natural or synthetic preparations as are referred to in the immediately preceding section added to it, the fact of such addition shall be clearly stated on the label, or the word 'compound' or 'mixture' shall be used to describe it.

5. Lemon Extract is the flavouring extract prepared from lemon peel, or from oil of lemon, and contains along with more or less of the terpenes of lemon oil not less than two-tenths (0.2) of one per cent of citral derived from oil of lemon.

6. Terpene Lemon Extract is the flavouring extract prepared as above described, and contains not less than five (5) per cent of oil of lemon, and not less than two-tenths (0.2) of one per cent of citral, derived from oil of lemon.

7. Vanilla Extract is the flavouring extract prepared from vanilla bean with or without sugar or glycerine, and contains in 100 cubic centimetres the soluble matters from not less than five (5) grams of vanilla bean (the dried, cured fruit of *Vanilla planifolia*).

The Standards above defined take effect on the 25th November, 1912.

WM. HILMSWORTH,  
*Acting Deputy Minister.*

DEPARTMENT OF INLAND REVENUE,

OTTAWA, October 29, 1912.

## MEMORANDUM.

Under the authority of an Order of His Excellency the Deputy Governor General in Council, bearing date the 17th day of October, 1912, and in virtue of the provisions of the 26th Section of the 'Adulteration Act,' the following standards of quality have been established for 'Canned Peas':—



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## CANNED PEAS.

1. Canned Peas, unless specially designated as below, shall be prepared from the harvest of the year in which they are canned, and shall be the unripe peas of the crop of that year.

2. Ripe Peas may be canned, provided that the label shows quite clearly that they are such. This may be done either by labelling them as Canned Ripe Peas, or by the use of the word Soaked.

3. Mixtures of ripe and unripe (or green) peas, shall be plainly labelled in such a way as to show that they are mixtures.

4. Peas which do not comply with the above regulations shall be deemed to be adulterated under the Act.

The Standards above defined to take effect on the 25th November, 1912.

WM. HIMSWORTH,  
*Acting Deputy Minister.*

DEPARTMENT OF INLAND REVENUE,  
OTTAWA, October 29, 1912.

## MEMORANDUM.

Under the authority of an Order of His Excellency the Deputy Governor General in Council, bearing date the 17th October, 1912, and in virtue of the provisions of the 26th Section of the 'Adulteration Act' the following standard of quality has been established for 'Honey':—

## HONEY.

Honey is entirely the product of the work of bees operating upon the Nectar of Flowers, and other saccharine exudations of plants; and contains not more than twenty-five (25) per cent of water; not more than eight (8) per cent of Sucrose (Cane Sugar); not more than twenty-five hundredths (0.25) of one per cent of ash; and not less than sixty (60) per cent of Invert Sugar.

The Standard above defined takes effect on the 25th November, 1912.

WM. HIMSWORTH,  
*Acting Deputy Minister.*

DEPARTMENT OF INLAND REVENUE,  
OTTAWA, November 4, 1912.

## MEMORANDUM.

Under the authority of an Order of His Royal Highness in Council, bearing date the 24th day of October, 1912, and in virtue of the provisions of the 26th Section of 'An Act Respecting the Adulteration of Food and Other Articles,' Chapter 133 of the Revised Statutes of Canada, 1906, the following limits of arsenic (As, 0, ) in Foods and Food Materials, have been established:—



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'Arsenic (Arsenious acid,  $\text{As}_2\text{O}_3$ ) shall not be present in Foods or Food Materials in excess of the following amounts:—

' Citric Acid...	..1 part per million.
' Tartaric...	..1 part per million.
' Cream of Tartar...	..2 parts per million.
' Bi-carbonate of Soda...	..2 parts per million.
' Phosphoric Acid...	..5 parts per million.
' Phosphate of Lime...	..5 parts per million.
' Phosphate of Soda...	..5 parts per million.
' Boric (Boracic) Acid...	..4 parts per million.
' Baking Powders...	..2 parts per million.

'The above named articles shall be declared to be adulterated when found to contain arsenic in excess of the amounts above mentioned.'

The Standards above defined take effect on the 2nd December, 1912.

WM. HIMS WORTH,

*Acting Deputy Minister.*



APPENDIX A.

BULLETIN No. 237—LARD.

OTTAWA, May 13, 1912.

WM. HIMSWORTH, Esq.,  
Ass't Deputy Minister, Inland Revenue Dept.,  
Ottawa.

SIR,—I beg to report upon 268 samples purchased as lard during the months of October and November of last year. These samples have been examined as regards their genuineness from the point of view of their conformity to the requirements of an Order-in-Council in effect from November 22, 1910, which defines lard as follows :—

- 1. Lard is the rendered fresh fat from hogs in good health at the time of slaughter, is clean, free from rancidity, and contains, necessarily incorporated in the process of rendering, not more than one (1) per cent, of substances other than fatty acids and fat.
- 2. Leaf lard is lard rendered at moderately high temperatures from the internal fat of the abdomen of the hog, excluding that adherent to the intestines, and has an iodine number not greater than sixty-five (65) and contains not more than one (1) per cent, of substances other than fatty acids and fat
- 3. Compound lard ; Lard compound, etc, is a mixture of animal and vegetable fats and oils. It must be free from rancidity, be made from sound and pure materials, and contain not more than one (1) per cent of substances other than fatty acids and fat.

The articles herein reported were sold to our inspectors as lard, with one exception, No. 45557, which was labelled as a compound.

It will be noted that allowance of only one per cent of substances other than fatty acids and fat, is common to all the grades of lard defined. Three samples of this collection contain an excess of water ; but the amount is in two instances, so slightly beyond legal limits that it must be regarded as accidental. The cases in question are :—

	Water.
No. 37312—Ingersoll Packing Co.....	2·09
“ 47376— “ “ .....	1·17
“ 48472—P. Burns Co.....	1·14

Two samples sold as lard, contain cotton seed oil, and should have been sold as compound. These are No. 1389 and No. 38242.

All other samples, 262 in number, conform to the requirements of legal lard, and must be regarded as genuine.

It will be observed that many samples judged as genuine, give a distinct reaction with the Halphen test for cotton seed oil. I am convinced that the indications of this test considered by themselves, are not sufficiently positive to furnish a basis for pronouncing cotton seed oil present, with intent. Hogs which have been fed with cotton seed meal may yield a fat which gives the red coloration with Halphen's re-agent. Unless the absorption of iodine confirm the Halphen test, I do not regard the presence of cotton seed oil as established.



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The last report upon lard was published as Bulletin 193, in December, 1909. On the whole, this article appears to be of good quality ; and the occasional sale of a compound lard for the genuine is to be regarded rather as an act of carelessness on the part of the retail dealer, than as intentional on the part of the manufacturer. Our inspection shows that manufacturers of compound lard are careful to state correctly the nature of the article on the container.

I beg to recommend the publication of this report as Bulletin No. 237.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,  
*Chief Analyst.*



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1911.							
Nov.	8	Lard..	46741 R. B. Adams & Co., Halifax, N.S.	1 lb.	17	Swift Co., Chicago...	Davis & Fraser, Halifax, N.S.
"	8	"	46742 P. T. Shea, Halifax, N.S.	1 "	20	J. Morrell, Ottumwa, U.S.	Mfr
"	8	"	46743 G. Hirshfield, Halifax, N.S.	1 "	14	Vendor.	
"	8	"	46744 Thos. Spry, Halifax, N.S.	1 "	17	"	
"	9	"	46745 J. A. Leaman & Co., Halifax, N.S.	1 "	18	Vendors.	
"	9	"	46746 A. L. Doyle & Co., Halifax, N.S.	1 "	17	"	
"	9	"	46747 T. J. Brown, Halifax, N.S.	1 "	18	Swift Co., Chicago..	Wentzells Ltd., Halifax, N.S.
"	9	"	46748 W. C. DeFay, Halifax, N.S.	1 "	18	Wm. Davies, Co., Toronto.	Davis & Fraser, Halifax, N.S.
"	9	"	46749 F. S. Short, Halifax, N.S.	1 "	18	F.W. Fearman, Hamilton.	Mfr.
"	10	"	46750 Hy. Cook, Halifax, N.S.	1 "	15	Vendor.	
"	10	"	46751 J. H. Emmett, Halifax, N.S.	1 "	15	"	
"	10	"	46752 J. G. Mitchell, Halifax, N.S.	1 "	17	"	
"	10	"	46753 J. A. Bremner, Halifax, N.S.	1 "	18	Wm. Davies, Co., Toronto, Ont.	R. B. Caldwell, agent, Halifax, N.S.
"	13	"	46754 Davis & Fraser, Halifax, N.S.	1 "	14	Vendors.	
"	14	"	46755 O. Lyons, Kentville, N.S.	1 "	18	F. W. Fearman, Co., Hamilton, Ont.	Mfrs.
"	15	"	46756 S. L. Cross, Kentville, N.S.	1 "	18	Park Blackwell, Toronto, Ont.	"
"	16	"	46757 Dixon Ltd., Halifax, N.S.	1 "	17	Wm. Davies, Co., Toronto, Ont.	R. B. Caldwell, agent, Halifax, N.S.
"	16	"	46758 Shore & Campbell, Halifax, N.S.	1 "	18	Unknown.	J. Crowe, Ltd., Halifax, N.S.
"	17	"	46759 S. Thomson, Dartmouth, N.S.	1 "	16	F. W. Fearman, Toronto.	Mfrs.
"	17	"	46760 Forsyth, Jr., Dartmouth, N.S.	1 "	18	"	"

DISTRICT OF PRINCE EDWARD ISLAND—

Oct.	16	Lard....	46106 John McKenna, Charlottetown, P.E.I.	1 lb.	18	Morris & Co., Chicago.	
"	16	"	46107 R. F. Maddigan & Co., Charlottetown, P.E.I.	1 "	18	Davis & Fraser, Charlottetown, P.E.I.	
"	17	"	46108 S. Sanderson & Co., Charlottetown, P.E.I.	1 "	16	Langs, Montreal.	
"	18	"	46109 Stewart & Son, Charlottetown, P.E.I.	1 "	16	Morris & Co., Chicago.	
"	21	"	46110 James Kennedy, Kensington, P.E.I.	1 "	17	Vendor.	



SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of opinion.)	RESULTS ANALYSIS.					Remarks and Opinion of the Chief Analyst.
	Water	Free Alkalies	Phosphorus	Free Chlorine	Hidden Residues	

R. J. WAUGH, INSPECTOR.

	0.01	67.56	51.1	None	46741	Genuine.
	0.02	66.39	50.0	Faint Pink..	46742	
	0.03	56.19	50.2		46743	
Leaf Lard.....	0.03	56.37	49.6	None	46744	
	0.10	52.68	49.7		46745	
	0.04	60.76	50.3	Faint Pink..	46746	
'Silver Leaf' Brand.....	0.03	66.58	51.1		46747	
Leaf Lard.....	0.04	62.02	50.4		46748	
'Star' Brand . . . . .	0.02	63.90	50.7	None	46749	
	0.03	56.27	49.8		46750	
	0.04	56.68	49.8		46751	
Sold as pure	0.05	60.00	50.0		46752	
	0.05	59.39	50.1	Faint Pink..	46753	
Labelled pure Leaf Lard	0.03	54.21	50.0	None	46754	
	0.09	55.11	51.3	Faint Pink..	46755	
	0.05	56.56	51.4		46756	
	0.02	58.67	50.1		46757	
	0.02	58.63	50.1		46758	
	0.02	58.75	50.6		46759	
	0.04	57.63	51.0		46760	

WM. A. WEEKS, INSPECTOR.

	0.02	58.16	50.0	None	46106	Genuine.
	0.02	57.56	49.5		46107	
	0.04	60.61	50.6	Light pink..	46108	
	0.03	59.83	50.0	None...	46109	
	0.04	51.93	49.8		46110	



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF PRINCE EDWARD ISLAND—

1911.							
Oct.	21	Lard.....	46111 R. T. Holman, Ltd., Summerside, P.E.I.	1 lb ..	15	Wm. Davis & Son, Toronto.	
"	21	" .....	46112 Brace McKay Co., Summerside, P.E.I.	1 " ..	16	Davies Ltd., Mont- real.	
"	26	" .....	46113 D. J. McLean, Monta- gue, P.E.I.	1 " ..	16	Jno. Tobin & Co., Halifax.	
"	27	" .....	46114 W. W. Jenkins, Georgetown.	1 " ..	16	The Wm. Davies & Co., Ltd., Toronto.	
"	31	" .....	46115 T. Strickland, Char- lottetown, P.E.I.	1 " ..	18	Vendor.....	

DISTRICT OF NEW BRUNSWICK—

Oct.	13	Lard.....	45540 John Hopkins, St. John N.B.	1 lb ..	16	Vendor.....	
"	14	" .....	45541 F. E. Williams Co., Ltd., St. John, N.B.	1 " ..	18	Vendors.....	
"	18	" .....	45542 G. B. Taylor, St. John, N.B.	1 " ..	Nil.	Vendor .....	
"	18	" .....	45543 Slipp & Flewelling, St. John, N.B.	1 " ..	16	Vendors.....	
"	18	" .....	45544 Carpenter & Co., St. John, N.B.	1 " ..	15	D. B. Martin Ltd., West Toronto, Ont.	
"	24	" .....	45545 D. McDade, St. John, N.B.	1 " ..	16	Vendor.....	
"	24	" .....	45546 2 Barkers, Ltd., St. John, N.B.	1 " ..	14	The Park Blackwell Co., Ltd., Toronto.	
"	24	" .....	45547 James Collins, St. John, N.B.	1 " ..	18	Gunn's, West Toron- to, Ont.	
Nov.	3	" .....	45548 P. F. McKenna, St. Stephen, N.B.	1 " ..	14	Swift Co. Ltd., U.S.A.	
"	7	" .....	45549 John McCluskey, Fred- erickton, N.B.	1 " ..	15	The Wm. Davies Co. Ltd., Montreal.	
"	8	" .....	45550 Imperial Packing Co., Ltd., Woodstock, N.B.	1 " ..	15	Vendors .....	
"	8	" .....	45551 W. S. Skillen, Wood- stock, N.B.	1 " ..	16	Gunn's, Ltd., Toron- to, Ont.	
"	9	" .....	45552 B. Beveridge, Andover, N.B.	1 " ..	17	" .....	
"	10	" .....	45553 F. D. Sadler, Perth, N.B.	1 " ..	17	Fowler's Can. Co. Ltd. Hamilton, Ont.	
"	14	" .....	45554 Sussex Packing Co., Ltd., Sussex, N.B.	1 " ..	15	Vendors.....	
"	15	" .....	45555 D. A. McBeath, Monc- ton, N.B.	1 " ..	17	F. W. Fearman Co., Ltd., Hamilton, Ont.	
"	15	" .....	45556 Wm. P. White, Monc- ton, N.B.	1 " ..	15	Davis & Fraser, Char- lottetown, P.E.I.	
"	16	Lard Com- pound..	45557 D. & J. Ritchie & Co., New Castle, N.B.	1 " ..	15	The N. K. Fairbank's Co., Montreal.	
"	17	Lard.....	45558 A. J. Meahan, Bath- urst, N.B.	1 " ..	15	Gunn's Ltd., West Toronto, Ont.	
"	17	" .....	45559 W. J. Kent & Co., Ltd. Bathurst, N.B.	1 " ..	15	F. W. Fearman Co., Ltd., Hamilton, Ont.	
"	17	" .....	45580 Adams Burns Co., Ltd. Bathurst, N.B.	1 " ..	15	Laing. P. & P. Co., Montreal.	



SESSIONAL PAPER No. 14

LARD.

Inspector's Report (If not an expression of opinion.)	RESULTS OF ANALYSIS.					Remarks and Opinion of the Chief Analyst.
	Water.	Leucine mm. bar (Hauke).	Pyrene Ice thermometer at 40° C.	Halphen Reaction.	Specific Gravity.	

WM. A. WEEKS, INSPECTOR. *Continued.*

	p.c.					
	0.02	58.42	50.4	None	.....	46111 Genuine.
	0.01	61.02	50.3			46112
Swiss	0.02	67.64	51.2			46113
	0.02	58.42	50.2			46114
	0.04	52.75	49.1			46115

J. C. FERGUSON, INSPECTOR.

	0.04	56.25	49.2	None		45540 Genuine
	0.04	56.60	50.0			45541
	0.01	58.34	49.9			45542
	0.06	57.28	49.8			45543
	0.03	61.97	50.8			45544
	0.03	56.19	49.3			45545
	0.09	55.80	51.7			45546
	0.09	58.98	50.2			45547
Star Leaf Brand	0.04	66.38	51.2	Pink	.....	45548
	0.04	60.77	50.7			45549
	0.17	54.79	49.4	Light Pink		45550
	0.04	57.73	50.7	None		45551
	0.04	60.20	50.5			45552
	0.04	60.48	50.6			45553
	0.03	55.76	49.7			45554
"Star" Brand	0.02	61.27	50.9			45555
	0.02	57.55	49.9			45556
"Bear's Head" Compound..	0.02	95.94	56.7	Red		45557 Sold as compound.
	0.03	60.73	50.3	Faint Pink..		45558 Genuine
	0.03	62.63	51.0	Light Pink..		45559
	0.03	60.77	50.2	Faint Pink		45560



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF QUEBEC—

1911.							
Oct.	12	Lard..	36998	Cantin & Frère, 271 rue St-Joseph, Quebec.	1 lb.	18	Blackwell Co., To-Unknown.....ronto.
"	13	"	36999	G. Gingras, 265 rue du Roi, Quebec.	1 "	20	Mathews, Peterboro. J. B. Reneaud et Cie.
"	16	"	37000	O. Lacroix, 19 rue St-Joseph, Quebec.	1 "	16	A. Dombrosky.....Manufacturer....
"	16	"	37301	J. E. Gregoire, 128 rue du Pont, Quebec.	1 "	15	G. Mathews Co., Hull. Emond and Côté....
"	17	"	37302	W. Cantin, 133 rue du Pont, Quebec.	1 "	18	Ingersalt Co., Mont-J. B. Reneaud et Cie. real.
"	19	"	37303	A. Pichette, 176 rue D'Orchester, Quebec.	1 "	18	Davis, Toronto. .... "
"	19	"	37304	Louis Jobin, 156 rue D'Orchester, Quebec.	1 "	20	Leon Bertrand.....Manufacturer....
"	19	"	37305	J. D. Marier, 136 rue D'Orchester, Quebec.	1 "	16	Gunn's Ltd, Toronto W. Carrier et Cie...
"	20	"	37306	W. Pampalon, 120 rue D'Orchester, Quebec.	1 "	20	Imperial, Hamilton.. N. Turcot et Cie....
"	20	"	37307	J. F. Goslin, 50 rue D'Orchester, Quebec.	1 "	20	Sylvain & Frere.....Manufacturers...
"	20	"	37308	Mad. T. Savard, 16 rue D'Orchester, Quebec.	1 "	20	Mathews..... J. B. E. Letellier ..
"	20	"	37309	Mad. Theodul Dubuc, 135 rue Charest, Que.	1 "	15	" ..... "
"	23	"	37310	A. A. Cantin, 555 rue St. Valier, Quebec.	1 "	18	Follor Cannille, Ha-J. B. Reneaud et Cie. milton.
"	23	"	37311	J. E. Morand, 406 rue St-Valier, Quebec.	1 "	20	" ..... "
"	23	"	37312	J. E. Emond, Laliberté and St. Helene, Que.	1 "	18	Ingersall Packing Co. Unknown....
"	23	"	37313	L. Mercier, 118 rue Laliberté, Quebec.	1 "	18	Geo. Mathews & Co., Drouin & Frère.....Ltd.
"	24	"	37314	Alfred Cloutier, 132 rue Laliberté, Quebec.	1 "	18	Ingersoll, Ont.. .... J. B. E. Letellier ..
"	24	"	37315	Ed. Verreault, 204 rue de la Reine, Quebec.	1 "	18	Fowlers, Hamilton.. Octave Jacques.....
"	24	"	37316	F. X. Goselin, 115 rue de la Couronne, Que.	1 "	16	Mathews, Hull..... J. B. E. Letellier...
"	24	"	37317	G. H. Turcotte, 92 rue Caron, Quebec.	1 "	17	Emond & Côté... .Manufacturers ..

DISTRICT OF ST. HYACINTHE—

Oct.	25	Lard .....	1370	A. E. D'Artois & Fils, Farnham.	1 lb.	18	The Harris Abattoirs Co., Ltd., Montreal .....
"	25	"	1371	Ed. Bienvenu, Farnham.	1 "	16	The Park Blackwell Co., Ltd., Toronto. ....
"	26	"	1372	W. R. Horner, Granby.	1 "	16	Gunn's Ltd., West Toronto. ....
"	26	"	1373	W. D. Bradford, Granby.	1 "	15	The Laing P. & P. Co. Ltd., Montreal. ....
"	26	"	1374	Allan Taylor & Co., Waterloo.	1 "	15	" ..... ..
"	26	"	1375	Gilmore & Girard, Waterloo.	1 "	15	The Park Blackwell Co., Ltd., Toronto. ....
"	26	"	1376	Mde a D'Lebeau, Sutton.	1 "	15	..... Hudon & Orsali, Montreal.



SESSIONAL PAPER No. 14

LA D.

Inspector's Report (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Volume Nucleus bar. mush.	Butyric fructometer at 40°C.	Halden Reaction.		

E. X. W. E. BELAND, INSPECTOR.

	p.c.					
	0.45	55.16	50.2	None.....	36998	Genuine.
	Trace	57.54	51.5	Faint Pink	36999	
		56.12	50.5	"	37000	
	None.	62.04	51.1		37301	
	1.08	51.40	49.8	None	37302	
	0.11	60.05	50.3	" .....	37303	
	Trace	62.87	51.1		37304	
		58.60	50.2	" .....	37305	
		62.79	50.8	" .....	37306	
	0.35	59.72	50.2	" .....	37307	
Pure Lard	Trace..	63.38	51.0		37308	
		61.97	50.4	Faint Pink	37309	
		60.52	50.2	None. ....	37310	
		63.87	50.6		37311	
	2.09	56.30	50.7		37312	Excess water
	Trace.	60.67	50.3		37313	Genuine
		56.91	50.8		37314	
		59.28	50.1	Faint Pink	37315	
		60.50	50.9	None.	37316	
		63.02	50.8		37317	

J. C. ROULEAU, INSPECTOR

	0.02	59.57	50.0	Faint Pink..	1370	Genuine
	0.22	58.02	51.5	None	1371	
	0.02	64.46	51.0	Faint Pink.	1372	
	0.04	61.63	50.6	Pink..	1373	
	0.04	62.38	50.3	Red	1374	
	0.03	62.00	50.4	None.	1375	
	0.03	58.25	50.0	"	1376	



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ST. HYACINTHE

1911.							
Nov.	6	Lard . . . .	1377 Bray Bros., Sherbrooke.	3 lbs .	55	The Ingersoll Packing Co., Ltd., Ingersoll, Ont.	
"	6	" . . . .	1378 King's Cash Store, Thetford.	$\frac{3}{4}$ "	13	Armour's Packing Co., Chicago.	
"	8	" . . . .	1379 C. E. Roy, Megantic. .	1 "	15	Fowler's Canadian Co., Ltd., Hamilton	
"	9	" . . . .	1380 E. A. McKee, Coaticook.	1 "	15	The Laing P. & P. Co. Ltd., Montreal.	
"	9	" . . . .	1381 Meade Bros. & Co., North Coaticook.	1 "	14		D. S. Bachand, Coaticook.
"	11	" . . . .	1382 F. W. D. Melloon, Rock Island.	1 "	14	Armour & Co., Chicago.	
"	11	" . . . .	1383 J. A. Surprenant, Rock Island.	1 "	13	Vendor.	
"	21	" . . . .	1384 J. P. Réne, Nicolet. .	1 "	15		L. Chaput fils & Cie, Montreal.
"	21	" . . . .	1385 A. D. Réne, Nicolet .	1 "	14		
"	22	" . . . .	1386 L. H. Paquin & Cie, Sorel.	1 "	17	The Whyte Packing Co., Ltd., Stratford.	
"	22	" . . . .	1387 J. V. Fagnan, Sorel. .	1 "	15	The Laing Co., Montreal.	
"	23	" . . . .	1388 J. B. St. Pierre, St. Hyacinthe.	1 "	17	Davies, Ltd., Montreal.	
"	23	" . . . .	1389 Bazinet & Brodeur. .	1 "	16	National Packing Provision Co., Quebec.	

DISTRICT OF MONTREAL

Oct.	23	Lard . . . . .	40941 J. E. Belisle, 129 Wellington St., Montreal	1 lb. . .	20		
"	23	" . . . . .	40942 J. Caron, 252 Church St., Verdun, P.Q. . .	1 " . .	14	D. B. Martin, Toronto	
"	23	" . . . . .	40943 " " " " " " " " " " " "	1 " . .	15	Davies Ltd., Montreal	
"	23	" . . . . .	40944 A. Clarke, 244 Church St., Verdun, P.Q. . .	1 " . .	15		Gunn, Langlois & Co., Montreal.
"	23	" . . . . .	40945 Louis Leblanc, 142 Church St., Verdun, P.Q.	1 " . .	15		
"	23	" . . . . .	40946 O. Brunet, 1265 Wellington St., Verdun, P.Q.	1 " . .	20		
"	23	" . . . . .	40947 obitaille & Gauthier, 2 Craig West, Montreal.	1 " . .	18	McDuff Lamb, Montreal.	
"	23	" . . . . .	40948 P. H. Theoret, 21 Vitre St. E., Montreal.	1 " . .	20	Laing P. & P. Co., Ltd., Montreal.	
"	23	" . . . . .	40949 R. Bernard, 91 Lagachetiere E., Montreal	1 " . .	15		Lunham & Grahan., Montreal.
"	23	" . . . . .	40950 E. Lionnais, 56 Sanguinet St., Montreal.	1 " . .	17		
"	24	" . . . . .	40951 Jos. Fournellé, St. Agathe de Monts, P.Q.	1 " . .	15	Davies Ltd., Montreal	



## SESSIONAL PAPER No. 14

## LARD.

Inspector's Report (Is not an expression of opinion.)	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Index Number by Hanks.	Butyr- m-eter at 60° C.	Hafphen Re- action.		

J. C. ROULEAU, INSPECTOR—*Concluded.*

Pure Lard	0 03	59 31	50 2	Faint Pink..	1377	Genuine
	0 03	66 13	51 0		1378	.
Pure Lard	0 04	61 25	50 7	None	1379	.
Extra Pure Lard	0 07	61 40	50 3	Red	1380	.
	0 04	68 58	51 2	Faint Pink..	1381	.
	0 03	67 83	51 1	Pink.	1382	.
	0 03	59 35	50 1	None	1383	.
Extra Pure Lard.	0 03	59 28	50 0		1384	.
	0 02	59 43	50 0		1385	.
	0 02	56 19	49 8	"	1386	.
	0 05	60 03	50 0	Red	1387	.
	0 03	63 50	50 3	None.....	1388	.
Pure Lard	0 04	72 88	52 9	Red.....	1389	Contains cotton seed oil. Adulterated.

## J. J. COSTIGAN, INSPECTOR.

Sold as pure	0 03	59 50	50 2	Red.....	40941	Genuine.
	0 02	61 14	50 1	None	40942	.
	0 03	59 57	50 0	"		.
	0 02	63 50	50 7	Faint pink.	40943	.
Sold as pure	0 04	59 73	50 0	Pink.....	40944	.
	0 03	59 46	50 3	Faint pink.	40945	.
	0 03	59 49	49 9	None..	40946	.
	0 07	60 18	50 4	Pink..	40947	.
	0 04	56 41	49 8	None.....	40948	.
"	0 05	64 25	50 9	Light pink.	40949	.
ure	0 02	62 74	50 5	None....	40950	.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by The Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MONTREAL—

1911.							
Oct.	24	Lard.....	40952	E. Masse, St. Agathe de Monts, P.Q.	1 lb ..	15	.....
"	27	" .....	40953	E. Dufour, Joliette, P.Q.	1 " ..	15	Laing P. & P. Co., Ltd.
"	27	" .....	40954	O. Chevalier et fils, Joliette, P.Q.	1 " ..	15	Davies Ltd., Montreal
Nov.	3	" .....	40955	E. W. Farrell, 79 St. Antoine St. West, Montreal.	1 " ..	18	The Geo. Matthews Co., Ltd.
"	3	" .....	40956	J. A. Reneaud, 622 St. Antoine St. West, Montreal.	1 " ..	15	.....
"	3	" .....	40957	Davies Ltd., 1640 B St. James St., Montreal.	1 " ..	16	Vendors .....
"	3	" .....	40958	A. Pilon, 1681 Notre Dame West, Montreal.	1 " ..	16	.....
"	3	" .....	40959	P. Lebrun, 1662 Notre Dame West, Montreal.	1 " ..	18	Fowler's Canadian Co., Ltd.
"	3	" .....	40960	H. Desmarais, 1650 Notre Dame West, Montreal.	1 " ..	15	.....

DISTRICT OF OTTAWA—

Oct.	10	Lard.....	49011	Peter Speirs & Co., Carleton Place.	1 lb ..	18	The Geo. Matthews Co., Ltd., Hull.
"	10	" ..	49012	Wm. Jenkins, Carleton Place.	1 " ..	16	The Park-Blackwell, Ltd., Toronto.
"	12	" .....	49013	W. E. Parsons, Arnprior.	1 " ..	15	The Geo. Matthews Co., Ltd., Hull.
"	12	" .....	49014	T. McCormick, Arnprior.	1 " ..	15	Fowler's Canadian Co., Hamilton.
"	13	" .....	49015	L. M. Davison, Kemptville.	1 " ..	18	Gilmour & Co., Brockville.
"	16	" .....	49016	D. J. Dick, Almonte.	1 " ..	15	The Geo. Matthews Co., Ltd., Hull.
"	16	" .....	49017	Fred W. Robertson, Almonte.	1 " ..	15	Fowler's Canadian Co., Ltd., Hamilton.
"	20	" .....	49018	Sanders, Soule & Casselman Co., Ltd., Chesterville.	1 " ..	16	The Geo. Matthews Co., Ltd., Hull.
"	20	" .....	49019	Chester Casselman, Chesterville.	1 " ..	15	The Wm. Davies Co., Toronto.
"	25	" .....	49020	A. Moreland, Bank st., Ottawa.	1 " ..	18	Gunn's, Ltd., Toronto Bate & Co., Ottawa.
"	25	" .....	49051	H. Armstrong, Bank st., Ottawa.	1 " ..	17	Fowler's Can. Co., Ltd., Hamilton.
"	25	" .....	49052	A.E.Rea & Co., Ottawa	1 " ..	18	Gunn's, Ltd., West Toronto.
"	25	" .....	49053	The Geo. Matthews Co., Ltd., By Ward Market, Ottawa.	1 " ..	15	Vendors.....
"	25	" .....	49054	" " " "	1 " ..	17	" .....



SESSIONAL PAPER No. 14

## LARD.

Inspector's Report (Is not an expression of opinion.)	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Iodine Num- ber (Hanus.)	Butyro Re- fractometer at 40°C.	Halphen Re- action.		

J. J. COSTIGAN, INSPECTOR—*Concluded.*

	p.c.					
Sold as pure.....	0.02	57.44	49.7	None	40952	Genuine
Labelled extra pure lard	0.06	62.12	50.8	Red.....	40953	
Labelled pure .....	0.04	61.51	50.4	None .....	40954	
.....	0.07	59.91	50.0	Red. ....	40955	
.....	0.03	58.50	50.1	None .....	40956	
.....	0.03	60.87	50.3		40957	"
.....	0.04	60.00	50.2		40958	
.....	0.04	60.94	50.1	Light pink.	40959	
.....	0.06	59.57	50.0	None .....	40960	

J. A. RICKEY, INSPECTOR.

.....	0.04	56.63	49.9	None .....	49011	Genuine.
Labelled choice family lard ; pure lard.	0.03	53.91	50.6	" ..	49012	
Matthews pure lard. ....	0.07	63.71	50.9	" ..	49013	"
Imperial pure lard .....	0.07	60.85	50.3	" ..	49014	
Pure lard. ....	0.07	58.61	50.1		49015	
Buttercup Brand .....	0.07	63.22	50.5		49016	
Imperial pure lard .....	0.05	60.18	50.8		49017	
Choice pure lard .....	0.08	60.97	51.1		49018	
.....	0.04	59.18	50.2	Faint pink.	49019	
.....	0.03	56.50	49.9		49020	"
Pure lard. L. & S. Best ..	0.03	59.13	50.0	None .....	49051	"
Maple Leaf ; pure lard .....	0.03	58.37	50.2	" .....	49052	"
Matthews pure lard. ....	0.04	58.92	50.0	" .....	49053	"
Rose Brand .....	0.03	56.88	49.9	" ..	49054	



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher
DISTRICT OF OTTAWA—							
1911.							
Oct. 26	Lard.....	49055	Goodall Bros., Ottawa.	3 lbs .	50	D. B. Martin, West Toronto.	
" 26	" . . . .	49056	A. P. Johnson, Ottawa	1 " . .	18	Jno. Duff & Son, Hamilton.	
" 26	" . . . .	49057	The Geo. Matthews Co., Ltd., Queen st. West, Ottawa.	1 " . .	15	Vendors.....	
" 26	" . . . .	49058	Jos. Martel, Hull, P.Q.	1 " . .	15	The Geo. Matthews, Ltd., Hull.	
" 26	" . . . .	49059	P. H. Charron & Co., Hull, P.Q.	1 " . .	15	Jos. O'Mara, Palmers ton, Ont.	
" 27	" . . . .	49060	B. Slattery, Ottawa...	1 " . .	18	D. B. Martin, Ltd., West Toronto.	
DISTRICT OF KINGSTON—							
Nov. 1	Lard. . .	48554	W. E. Hopkinson, Kingston.	1 lb. . .	20	Anderson Bros., Kingston.	
" 1	" . . . .	48555	Geo. Gibson, Kingston	1 " . .	15	Gunn's Ltd., West Toronto.	
" 1	" . . . .	48556	L. W. Murphy, Kingston.	1 " . .	15	..... J. Y. Parkhill, Kingston.	
" 1	" . . . .	48557	J. Cullen, Kingston...	1 " . .	16	Geo. Matthews, Peterboro.	
" 1	" . . . .	48558	C. Saunders, Kingston	1 " . .	15	" " . . . . .	
" 1	" . . . .	48559	C. H. Pickering, Kingston.	1 " . .	15	..... Geo. Robertson & Son, Kingston.	
" 1	" . . . .	48560	Anderson Bros., Kingston.	1 " . .	15	Vendors . . . . .	
" 1	" . . . .	48561	E. S. Suddard, Kingston.	1 " . .	15	Gunn's Ltd., West Toronto.	
" 1	" . . . .	48562	D. Couper, Kingston..	1 " . .	15	Geo. Matthews, Peterboro.	
" 1	" . . . .	48563	Kelley Bros., Kingston	1 " . .	15	" " . . . . .	
" 2	" . . . .	48564	M. Nolan, Kingston...	1 " . .	15	Freeman, Hamilton. .	
" 2	" . . . .	48565	J. Crawford, Kingston.	1 " . .	17	Geo. Matthews, Peterboro.	
" 2	" . . . .	48566	D. B. Gage, Kingston.	1 " . .	15	Fowlers, Hamilton...	
" 2	" . . . .	48567	J. Lemmon, Kingston.	1 " . .	15	Geo. Matthews, Peterboro.	
" 2	" . . . .	48568	J. A. Donaldson, Kingston.	1 " . .	15	A. Maclean, Kingston	
" 2	" . . . .	48569	J. T. Morris, Kingston	1 " . .	14	J. Y. Parkhill, Kingston.	
" 4	" . . . .	48570	G. D. Vallean, Kingston.	1 " . .	16	Gunn's Ltd., West Toronto.	
" 4	" . . . .	48571	J. McCulla, Kingston.	1 " . .	16	Fowlers, Hamilton...	
" 4	" . . . .	48572	J. R. B. Gage, Kingston.	1 " . .	15	Gunn's Ltd., West Toronto.	
" 4	" . . . .	48573	J. Redden, Kingston...	1 " . .	15	Anderson Bros, Kingston.	



## SESSIONAL PAPER No. 14

## LARD.

Inspector's Report. (Is not an expression of opinion.)	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and opinion of the Chief Analyst.
	Water.	Iodine Num- ber (Hanus).	Batyro Re- fractometer at 40° C.	Halphen Reaction.		

J. A. RICKEY, INSPECTOR—C. 111

	p. c.				
	0.01	60.32	50.1	None. . . .	48056 Genuine
Horse Shoe Brand.. . . .	0.03	60.75	50.8		48056
Matthews pure lard.	0.04	60.18	50.2		48057
Rose Brand . . . . .	0.01	57.00	49.9		48058
Pure lard . . . . .	0.00	57.01	50.6		48059
	0.08	59.65	50.1		48060

JAS. HOGAN, INSPECTOR.

	0.03	59.07	50.0	None	48554 Genuine
	0.03	60.59	50.5		48555
	0.05	59.78	50.1		48556
	0.05	59.50	50.5		48557
	0.04	59.72	50.2	Pink.....	48558
	0.04	59.63	50.0	None . . . . .	48559
	0.03	59.76	50.0		48560
	0.05	58.61	50.0		48561
	0.05	59.45	50.2		48562
...	0.04	59.03	50.0		48563
	0.04	61.23	50.5		48564
	0.03	62.63	50.7		48565
	0.04	56.89	49.4	Faint Pink..	48566
	0.03	51.00	49.0	None . . . . .	48567
...	0.04	60.23	50.1		48568
	0.03	59.15	50.3	Pink.....	48569
	0.02	57.63	50.0	None . . . . .	48570
...	0.03	61.23	50.5		48571
	0.03	61.65	50.9	Pink....	48572
...	0.04	58.44	50.2	None . . . .	48573



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF TORONTO—

1911.							
Oct.	24	Lard.....	47360 C. W. Fox, Owen Sound.	1 lb..	15	Gunn's, Ltd, Toronto	
"	11	" .....	47365 James Blake, 393 Mary St., Hamilton.	1 " ..	15	F. W. Fearman Co., Ltd., Hamilton.	
"	16	" .....	47366 B. Chrysler, Mary St., Hamilton.	1 " ..	15	Fowler's Can. Co., Hamilton.	
"	18	" .....	47367 A. E. Cronk, Cannon St., Hamilton.	1 " .	14	Jno. Duff & Son, Hamilton.	
"	18	" .....	47368 A. T. Prosser, 214 Locke St., Hamilton.	1 " ..	15	Gunn's Ltd., Toronto.	
"	20	" .....	47369 H. A. Tubb, 337 Parliament St., Toronto.	1 " ..	17	Puddy Bros., Toronto.	
"	20	" .....	47370 E. Handley, 268 Spadina St., Toronto.	1 " ..	16		
"	23	" .....	47371 F. H. Arkell, Orangeville.	1 " ..	15	Gunn's Ltd., Toronto.	
"	23	" .....	47372 T. Durkin & Son, Orangeville.	1 " ..	15	"	
"	24	" .....	47373 J. R. Boyd, Owen Sound.	1 " ..	15	Vendor.....	
"	24	" .....	47374 M. A. Goetz, Owen Sound.	1 " ..	17	"	
"	24	" .....	47375 J. McQuaker & Co., Owen Sound.	1 " ..	15	Whyte Packing Co., Stratford.	
"	26	" .....	47376 D. Gibbons & Sons, Meaford.	1 " ..	15	The Ingersoll Packing Co., Ltd., Ingersoll	
"	26	" .....	47377 Brown Bros., Meaford.	1 " ..	15	The Collingwood Packing Co., Ltd., Collingwood.	
"	26	" .....	47378 T. M. McKeown, Collingwood.	1 " ..	15	Swift Can. Co., Ltd., W. Toronto.	
"	27	" .....	47379 J. Bingham & Son, Barrie.	1 " ..	15	Vendors.....	
Nov.	2	" .....	47380 W. B. Pringle & Co., Whitby.	1 " ..	17	The Wm. Davies Co., Ltd., Toronto.	
"	2	" .....	47381 Mathison Bros. Whiteby.	1 " ..	18	The Geo. Matthews Co., Ltd., Peterboro	
"	2	" .....	47382 C. H. Crysdale & Son, Oshawa.	1 " ..	15	Fowlers Can. Co., Ltd., Hamilton.	
"	2	" .....	47382 Brooks & Armour, Oshawa.	1 " ..	16	Vendors.....	

DISTRICT OF WINDSOR—

Oct.	16.	Lard.....	47801 M. Vansycle, St. Thomas.	1 lb..	10	St. Thomas Packing Co.	
"	16.	" .....	47802 A. J. Kadwell, St. Thomas.	1 " ..	16	Geo. Matthews Co., Brantford.	
"	16.	" .....	47803 Karstadt & Mahler, St. Thomas.	1 " ..	18	Tillsonburg Packing Co.	
"	16.	" .....	47808 St. Thomas Packing Co., St. Thomas.	1 " ..	nil.	Vendors .....	
"	16.	" .....	47812 R. T. Pencombe, St. Thomas.	1 " ..	16	Fowler's Canadian Co., Hamilton.	
"	17.	" .....	47816 Orendorf Bros., Ridgetown.	1 " ..	15	Geo. Matthews Co., Brantford.	



## SESSIONAL PAPER No. 14

## LARD.

Inspector's Report. (Is not an expression of opinion.)	RESULT OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst
	Water.	Iodine Number (Hanus).	Butyro-Refractometer at 40°C.	Halphen Reaction.		
"Maple Leaf" Brand. Pure Lard.	0.04	59.50	50.3	None	47360	Genuine.
	0.03	58.32	50.0		47365	
	0.03	63.75	51.0		47366	
	0.03	61.01	50.4		47367	
	0.04	52.56	49.0		47368	
	0.04	57.91	50.1		47369	
	0.03	55.17	51.2		47370	
"Maple Leaf" Pure Lard	0.04	61.38	50.5		47371	
	0.04	62.24	50.5	Pink	47372	
	0.13	57.18	49.7	None	47373	
	0.04	56.08	49.8		47374	
	0.02	60.35	50.4		47375	
"Beaver" Brand.	1.17	61.73	50.8		47376	Water in excess. Duplicate sample gave 1.52 p.c. moisture.
	0.03	56.97	49.9	Pink	47377	Genuine.
"Silver Leaf" Brand. Guaranteed Pure Lard.	0.04	68.28	51.5	None	47378	
	0.03	62.20	51.0		47379	
	0.03	61.97	50.5		47380	
"Rose" Brand	0.04	53.91	49.2		47381	
	0.04	60.49	50.5	Faint pink.	47382	
	0.06	59.95	50.6	None	47383	

## JNO. TALBOT, INSPECTOR.

Labelled Pure Family Lard.	0.05	62.50	50.9	None	47801	Genuine.
	0.03	64.26	51.3		47802	
Labelled London T. P. C. Pure Lard	0.04	60.19	50.4	Faint pink.	47803	
	0.11	59.72	50.3	None	47808	
Labelled Fowler's Pure Lard, L. & S. Best.	0.04	60.67	50.2	Faint pink.	47812	
Labelled Geo. Matthews' Pure Lard.	0.02	61.72	50.7	None	47816	



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Name and Address of the Manufacturer or Furnisher, as given by the Vendor.		
				Cost.		
				Quantity.	Cents.	Manufacturer.      Furnisher.

DISTRICT OF WINDSOR—

1911.						
Oct. 17.	Lard. . . .	47823	Clark & Sons, Ridge-town.	1 lb. . .	15	Geo. Matthews Co., Brantford.
" 18.	" . . . .	47825	B. C. Watson, Leamington.	1 " . .	15	F. W. Fearman, Hamilton.
" 18.	" . . . .	47829	B. & W. McIntyre, Leamington.	1 " . .	16	Geo. Matthews Co., Brantford.
" 18.	" . . . .	47834	R. T. Moran, Leamington.	1 " . .	16	F. W. Fearman Co., Hamilton.
" 20.	" . . . .	47850	Wm. Rodgers, Chatham.	1½ lb. .	20	Dom. Provision Co., London.
" 20.	" . . . .	47851	E. R. Snook, Chatham.	1½ " . .	20	F. W. Fearman, Hamilton.
" 20.	" . . . .	47852	Jas. Tefft, Chatham.	1 tin. .	40	Vendor . . . . .
" 20.	" . . . .	47853	M. Taylor, Chatham.	1½ lb. .	13	Fowler's Can. Co., Hamilton.
" 23.	" . . . .	47859	Geo. Jackson, London.	1 lb. . .	15	Vendor . . . . .
" 23.	" . . . .	47860	T. Hamlyn, London.	1 " . .	15	" . . . . .
" 23.	" . . . .	47861	H. A. Schafer, London.	1 " . .	15	Tillson Packing Co., Tillsonburg.
" 23.	" . . . .	47862	F. T. Adams, London.	1 " . .	13	Vendor . . . . .

DISTRICT OF MANITOBA—

Nov. 6	Lard. . . .	47448	D. Christie, Winnipeg.	1 lb. . .	15	Wm. Davis & Co., Toronto.	Unknown . . . . .
" 6	" . . . .	47449	Robertson & Co., Winnipeg.	1 " . .	20	Western Packing Co., Winnipeg.	
" 6	" . . . .	47450	J. Patterson, Winnipeg	1 " . .	20	Gordon Ironsides, Fares Co., Winnipeg.	
" 6	" . . . .	47451	The W. H. Stone & Co., Winnipeg.	1 " . .	20	Swift Canadian Co., Winnipeg.	Manufacturers.
" 6	" . . . .	47452	M. Brown, Winnipeg.	1 " . .	20		
" 6	" . . . .	47454	F. E. Crone, Winnipeg	1 " . .	20	Swift Canadian Co., Winnipeg.	Unknown . . . . .
" 6	" . . . .	47455	F. Fawley, Winnipeg.	1 " . .	20	Gordon Ironsides Fares Co., Winnipeg.	
" 6	" . . . .	47456	F. H. Menlove, Winnipeg.	1 " . .	20		
" 7	" . . . .	47457	Carson Bros., Norwood Grove, Man.	1 " . .	15	Western Packing Co., Winnipeg.	
" 7	" . . . .	47458	John Donnelly & Son, Norwood Grove, Man.	1 " . .	20	Swift Canadian Co.	
" 7	" . . . .	47459	W. J. Kennedy, Norwood Grove, Man.	1 " . .	20	F. W. Fearman & Co., Hamilton.	
" 7	" . . . .	47460	W. T. Francis, Norwood Grove, Man.	1 " . .	20	Gordon Ironsides Fares Co., Winnipeg.	
" 8	" . . . .	47461	T. and B. Grocery, Winnipeg.	1 " . .	20	Western Packing Co., Winnipeg.	



SESSIONAL PAPER No. 14

## LARD.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks, and opinion of Chemist Analyst.
	Water	Iodine Number (Hanes).	Fatty acid fractionator at 40° C.	Halphen Reaction.		

JNO. TALBOT, INSPECTOR. *Continued.*

	p. c.				
Labelled Family Lard.	0.07	65.52	51.3	None	47823 Genuine
	0.04	60.71	50.4		47825
	0.05	61.89	50.6		47829
Labelled 'Star' Brand Pure Lard.	0.12	59.60	50.6		47834
	0.09	59.30	50.6		47850
	0.07	62.61	50.7	Faint pink.	47851
Labelled Pure Lard	0.03	58.77	49.8	None	47852
Labelled L. & S. Pure Lard.	0.07	63.25	50.9		47853
	0.08	60.49	50.3		47859
	0.09	59.72	50.1		47860
Labelled London's T. P. C. Pure Lard.	0.04	55.40	49.7		47851
	0.05	60.00	50.1		47862

A. C. LARIVIERE, INSPECTOR.

	0.03	64.21	51.1	None	47448 Genuine
	0.41	56.50	51.2		47449
	0.04	53.50	51.0		47450
	0.02	67.43	50.3	Faint pink..	47451
	0.03	62.56	50.6	Light pink..	47452
	0.02	67.50	51.3	Faint pink..	47454
	0.10	53.84	50.8	None	47455
	0.19	54.92	50.7		47456
	0.05	57.81	50.9		47457
	0.03	64.23	50.8	Faint pink..	47458
"Star Brand"	0.02	62.05	50.4	Pink	47459
	0.03	57.02	49.8	Faint pink..	47460
	0.03	60.32	50.0	None	47461



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF MANITOBA—							
1911.							
Nov.	8 Lard.....	47462	C. J. Caswell, Win- nipeg.	1 lb ..	20	Gallagher, Holdman, Lafrance, Winnipeg	
"	8 " .....	47463	W. Rourke & Co., Winnipeg.	1 " ..	20	Armour & Co.....	
"	8 " .....	47464	Walter Fee, Winnipeg.	1 " ..	20	Swift Canadian Co., Winnipeg.	Unknown ..
"	9 " .....	47465	H. A. Webb (Elm- wood), Winnipeg.	1 " ..	15	Unknown .....	" .....
"	9 " .....	47466	Reimer Trading Co., (Elmwood), Winnipeg	1 " ..	20	Swift Canadian Co, ...	.....
"	9 " .....	47467	R. Beath & Son (Elm- wood), Winnipeg.	1 " ..	18	.....	.....
"	9 " .....	47473	Wm. Coates, Winnipeg	1 " ..	18	Gordon, Ironside & Fares, Winnipeg.	.....
DISTRICT OF CALGARY—							
Nov.	9 Lard . . .	44021	J. T. Bell & Sons, Me- dicine Hat.	1 lb.	20	Vendors...	
"	9 " .....	44022	H. W. Ireland & Co., Medicine Hat.	3 " ..	60	Gallagher, Holman, Lafrance Co., Win- nipeg.	
"	9 " .....	44023	Spencer & Todd, Medi- cine Hat.	1 " ..	25	Swift Canadian Co., Edmonton.	
"	9 " .....	44024	L. B. Cochran, Medi- cine Hat.	1 " ..	25	" ..	
"	9 " .....	44025	R. Mitchell, Medicine Hat.	1 " ..	20	Vendor .....	
"	9 " .....	44026	LePage Bros., Medi- cine Hat.	1 " ..	25	Swift Canadian Co., Edmonton.	
"	9 " .....	44027	Hewitt & Armstrong, 1 Medicine Hat.	1 " ..	25	Gallagher, Holman, Lafrance Co., Win- nipeg.	
"	9 " .....	44028	H. Morrow, Medicine Hat.	1 " ..	25	Swift Canadian Co., Edmonton.	
"	9 " .....	44029	A. W. Curran, Medi- cine Hat.	1 " ..	25	" ..	
"	9 " .....	44030	J. T. Bell & Sons, Me- dicine Hat.	1 " ..	25	Vendors.....	
"	20 " .....	44031	R. J. Frizzle, Calgary.	1 " ..	20	Swift Canadian Co., Winnipeg.	
"	20 " .....	44032	C. Bradley, Calgary...	1 " ..	20	P. Burns & Co., Cal- gary.	
"	20 " .....	44033	Sugden & Morse, Cal- gary.	1 " ..	20	Swift Canadian Co., Edmonton.	
"	20 " .....	44034	C. Wrightson & Son, 1 Calgary.	1 " ..	20	Dom. Meat Co., Cal- gary.	
"	20 " .....	44035	Jenkins & Co., Cal- gary.	1 " ..	20	Swift Canadian Co., Edmonton.	
"	20 " .....	44036	Summers & Comfoot, 1 Calgary.	1 " ..	20	" ..	
"	22 " .....	44037	P. Burns & Co., Ltd., 1 East Calgary.	1 " ..	20	Vendors.....	
"	22 " .....	44038	Hughes Meat Co., Cal- gary.	1 " ..	20	Swift Canadian Co., Edmonton.	
"	22 " .....	44039	Swift Canadian Co., 1 Ltd., Calgary.	1 " ..	20	" ..	
"	22 " .....	44040	The Dom. Meat Co., 1 Ltd., Calgary.	1 " ..	20	Vendors.....	



SESSIONAL PAPER No. 14

## LARD.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Iodine num- ber (Hanus).	Butyro Re- fractometer at 40°C.	Halphen Reaction.		
A. C. LARIVIERE, INSPECTOR— <i>Concluded.</i>						
	p. c.					
.....	0.03	58.98	49.9	Faint pink.	47462	Genuine
Armours Shield. Pure Lard.	0.04	67.50	51.2		47463	
.....	0.02	67.69	51.4		47464	
.....	0.04	57.34	50.1		47465	
.....	0.03	64.98	50.7		47466	
.....	0.03	64.13	50.9	Light pink.	47467	
.....	0.04	56.47	49.7	None.	47473	
R. W. FLETCHER, INSPECTOR.						
.....	0.04	61.89	50.3	None.....	44021	Genuine
.....	0.04	62.75	51.1	Faint pink.	44022	
.....	0.04	64.24	51.0	Light pink.	44023	
.....	0.03	65.91	51.1		44024	
.....	0.04	62.16	50.5	None....	44025	
.....	0.02	63.25	51.0	Faint pink.	44026	
.....	0.02	62.87	51.0		44027	
.....	0.04	65.49	51.1	Pink....	44028	
.....	0.04	66.38	51.0	Light pink.	44029	
.....	0.03	62.23	50.4	None...	44030	
.....	0.02	66.24	51.2	Faint pink.	44031	
.....	0.02	63.50	50.5	Pink....	44032	
.....	0.03	67.71	51.3	Faint pink.	44033	
.....	0.02	62.99	50.5	None.....	44034	
.....	0.02	64.21	50.7	Light pink.	44035	
.....	0.02	64.22	51.0	Faint pink.	44036	
.....	0.01	63.61	51.0	Red....	44037	
.....	0.03	65.85	51.4	None.....	44038	
.....	0.03	63.50	51.0	Faint pink.	44039	
.....	0.03	63.59	50.9		44040	



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NELSON—

1911.							
Oct. 19	Lard . . . . .	48436	Trites, Wood Co., Fernie, B.C.	3 lbs.	55	Armour & Co., Chicago.	
" 19	" . . . . .	48437	" . . . . .	3 "	55	Swift Can. Co., Edmonton.	
" 19	" . . . . .	48438	" . . . . .	3 "	55	P. Burns & Co., Calgary.	
" 27	" . . . . .	48449	W. R. Braden & Son, Rossland, B.C.	1 pail.	60	Swift Can. Co., Edmonton.	
" 27	" . . . . .	48454	Union Co-op Assocn., Rossland, B.C.	1 "	65	" . . . . .	
" 27	" . . . . .	48461	Hunter Bros., Rossland, B.C.	1 "	90	E. H. Stanton & Co., Spokane.	
" 27	" . . . . .	48462	" . . . . .	1 "	60	Swift Can. Co., Edmonton.	
" 27	" . . . . .	48467	N. Laface, Rossland, B.C.	1 "	60	Armour & Co., Chicago.	
" 27	" . . . . .	48468	P. Burns & Co., Rossland, B.C.	1 "	60	P. Burns & Co., Calgary.	
" 27	" . . . . .	48469	" . . . . .	1 lb.	20	Vendors. . . . .	
" 28	" . . . . .	48470	Union Grocery, Nelson.	1 pail.	55	Armour & Co., Chicago.	
" 28	" . . . . .	48471	" . . . . .	1 "	55	G. Matthews Co., Peterboro.	
" 28	" . . . . .	48472	W. W. Harris, Nelson.	1 "	60	P. Burns & Co., Calgary.	
" 28	" . . . . .	48473	" . . . . .	1 "	60	Swift Can. Co., Edmonton.	
" 28	" . . . . .	48474	" . . . . .	1 "	90	Armour & Co., Chicago.	
" 28	" . . . . .	48475	P. Burns & Co., Nelson.	1 "	95	Park, Blackwell Co., Toronto.	
" 28	" . . . . .	48476	" . . . . .	1 "	95	Armour & Co., Chicago.	
" 28	" . . . . .	48477	" . . . . .	1 "	95	P. Burns & Co., Calgary.	
" 28	" . . . . .	48478	A. S. Horswill, Nelson.	1 "	55	Swift Can. Co., Edmonton.	
" 28	" . . . . .	48479	" . . . . .	1 "	55	Armour & Co., Chicago.	

DISTRICT OF VANCOUVER—

Oct. 23	Lard. . . . .	38235	Vancouver-Prince Rupert Meat Co., Vancouver.	1 lb.	15	Vendors. . . . .	
" 23	" . . . . .	38236	Andrew Reid, Robson st., Vancouver.	1 "	20	Wm. Davies, Toronto.	
" 23	" . . . . .	38237	W. E. Morrison, Public Market, Vancouver.	1 "	20	Swift & Co., Winnipeg.	
" 23	" . . . . .	38238	Gray & Co., Granville Market, Vancouver.	1 "	20	P. Burns & Co., Vancouver.	
" 23	" . . . . .	38239	F. R. Stewart, Water st., Vancouver.	1 "	15	Frye & Co., Seattle, Wash.	



SESSIONAL PAPER No. 14

## LARD.

Inspector's Report (Is not an expression of opinion.)	RESULTS OF ANALYSIS					Remarks and Opinion of the Chief Analyst.
	Water.	Unsatur- ated Hydro- gen.	Hydro- gen at 100° C.	Re- sidual	Specific Gravity	
THOS. PARKER, INSPECTOR.						
	0.04	68.46	51.6	None	18436	Genuine.
	0.04	66.71	51.5		18437	
	0.05	63.75	50.8		18438	
	1.06	65.38	51.5	Faint Pink..	18440	
	0.06	65.68	51.4	None.....	18454	
	0.07	64.11	50.9		18461	
	0.02	68.17	51.6		18462	
	0.10	65.11	52.2		18467	
	0.04	61.88	50.7	Faint Pink..	18468	
	0.05	58.50	50.1	None.....	18469	
	0.05	66.25	51.1	Faint Pink	18470	
	0.04	62.50	50.6		18471	
	1.14	62.88	50.9		18472	Excess water. Duplicate sample gave 1.14 p.c. water.
	0.04	67.25	51.1		18473	Genuine.
	0.04	60.60	51.6		18474	
	0.15	60.10	51.5		18475	
	0.04	65.33	50.9	None	18476	
	0.05	63.27	51.0	Pink..	18477	
	0.04	65.67	51.0		18478	
	0.03	60.46	50.1	None.	18479	

J. F. POWER, INSPECTOR.

	0.03	60.80	50.5	None.	38235	Genuine.
	0.03	58.52	50.0		38236	
Guaranteed pure lard.	0.02	64.12	51.0		38237	
	0.03	62.75	50.5	Pink..	38238	
	0.03	65.58	51.1	Faint pink.	38239	



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VANCOUVER—

1911.							
Oct.	25	Lard.....	38240 Blain's Grocery, Nicola st., Vancouver.	1 lb ..	20	Morrell & Co., Ottumwa, Ia., U.S.A.	
"	25	" .....	38241 W. H. Walsh & Co., Seymour st., Vancouver.	1 "	20	P. Burns & Co., Vancouver.	
"	25	" .....	38242 Wm. Crossan, Davie st., Vancouver.	1 "	20		
"	25	" ...	38243 J. Atkins, Hamilton st., Vancouver.	1 "	20		

DISTRICT OF VICTORIA—

Oct.	25	Lard. ....	47641 Windsor Grocery Co., Victoria.	1 lb ..	20	Frye, Bruhn & Co., Seattle, Wash.	
"	26	" .....	47642 The West End Grocery Co., Ltd., Victoria.	1 "	20	Jno. Morrell & Co., Ottumwa, Ia., U.S.A.	
"	26	" .....	47643 " " .....	1 "	20	Swift Can. Co., Ltd., Winnipeg.	
Nov.	9	" .....	47644 Copas & Young, Victoria.	1 "	20	Jno. Morrell & Co., Ottumwa, Ia., U.S.A.	
"	9	" .....	47645 Wm. B. Hall, Victoria.	1 "	20	Swift Can. Co., Ltd., Winnipeg	
"	13	" .....	47646 Erskine & Co., Victoria	1 "	20	" " .....	
"	15	" .....	47647 D. H. Ross, Victoria..	1½"	30	Frye Bruhn Co., Seattle, Wash.	
"	15	" .....	47648 Harrison & McDonald, Victoria.	1 "	20	Jno. Morrell & Co., Ottumwa, Ia., U.S.A.	
"	16	" .....	47649 E. G. Bailey, Victoria.	1 "	25	Frye Bruhn Co., Seattle, Wash.	
"	16	" .....	47650 Acton Bros., Victoria.	3 "	55	Swift Can. Co., Ltd., Winnipeg.	



## SESSIONAL PAPER No. 14

## LARD.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS				No. of Sample.	Remarks and opinion of the Chief Analyst.
	Water.	Leoline Number (Hanus).	Butyrolic fraction, per cent at 40° C.	Haidphen Reaction.		

J. F. POWER, INSPECTOR—*Concluded.*

	p. c.				
...	0.03 67.06	51.3	None.	38240	Genuine.
...	0.03 62.48	50.5	Faint pink..	38241	
...	0.03 71.33	52.1	Red .....	38242	Contains a trace of adulterated.
Packed by vendor from P. Burns bulk article.	0.02 61.67	50.5	Faint pink..	38243	Genuine.

## D. O'SULLIVAN, INSPECTOR.

'Wild Rose' Brand; pure lard.	0.15 67.16	51.9	Faint pink..	47641	Genuine.
Morrell's warranted pure lard	0.05 65.65	51.6	None.	47642	
Swift's 'Silver Leaf' Brand pure lard.	0.06 65.75	51.5		47643	
	0.03 65.56	51.3		47644	
	0.05 63.62	51.0	Faint pink.	47645	
Swift's pure lard .....	0.04 64.46	51.2		47646	
Wild Rose brand pure lard	0.04 65.12	51.0		47647	
Morrell's warranted pure lard	0.02 66.11	51.7		47648	
'Wild Rose' brand pure lard	0.03 68.16	51.4	Light pink.	47649	
	0.04 63.37	51.2	None.....	47650	



## SUPPLEMENT TO BULLETIN No. 227 FERTILIZERS 1911

## CORRECTIONS.

Bulletin No. 227, page 11, sample No. 36942. This sample is found to contain 20·1 per cent. of phosphoric acid. It is identical with sample No. 46637 on page 5 of the same Bulletin, and the percentage of phosphoric acid there given as 12·25 should read 20·1—Sample 46637 is therefore up to its guarantee in phosphoric acid. The mistake was due to confusion of a license number with a registration number, by the Analyst.



## APPENDIX B.

## BULLETIN No. 238—BUTTER.

OTTAWA, May 14, 1912.

WM. HIMSWORTH, Esq.,  
Assistant Deputy Minister of Inland Revenue.

SIR,—I beg to report upon a collection of 157 samples of butter purchased by our inspectors during February and March of this year.

An official standard for butter is established by an Order-in-Council of November 3, 1910, as follows :—

(G. 934).

*Butter Fat*, is the fat of milk, and has a Reichert-Meissl number not less than 24 and a specific gravity not less than 0.905  $\frac{(40^{\circ} \text{C})}{(40^{\circ} \text{C})}$ .

*Butter* is the clean non-rancid product made by gathering in any manner the fat of fresh or ripened milk or cream into a mass, which also contains a small portion of the other milk constituents, with or without salt, and contains not less than 82.5 per cent milk fat and not more than 16 per cent of water. Butter may also contain added colouring matter of harmless character.

The value of butter inheres in the amount and the quality of the fat contained in it. Legal butter must not contain more than 17.5 per cent of other substances than milk fat. These substances are essentially water, salt and curd. It is evident that by increasing the water content of butter, the purchaser may be defrauded, and for this reason a specific maximum for water is fixed by law. This maximum (16 per cent) is evidently much higher than necessary, and the following synopsis of water content actually found in the 157 samples now reported is instructive :—

Less than 1 per cent water in 5 samples.

"	2	"	6	"
"	10	"	112	"
Above	10	"	33	"
"	16	"	1	"
Total.....				157

It is by the introduction of water, rather than by an excess of salt, that the producer can increase the weight of his product, since modern taste objects to the presence of more than 3 or 4 per cent of salt. This is seen in the following resume of the present collection :—

Salt below 1 per cent in 7 samples.

"	from 1 to 2	"	50	"
"	" 2 to 3	"	51	"
"	" 3 to 4	"	28	"
"	" 4 to 5	"	13	"
"	" 5 to 6	"	5	"
"	" 6 to 7	"	2	"
"	above 7	"	1	"
Total. ....				157



Where a butter contains 3 per cent of salt, it is evident that not more than 14·5 per cent of water can be present, if the butter is legal butter ; that is if it contains 82·5 per cent of milk fat, as required by law. It would appear from the above record of water content, that this allowance is ample ; and indeed the best butters contain much less than 14·5 per cent of water.

The following statement is instructive as showing that the best butter making provinces furnish a butter with comparatively low water content.

10 samples of butter from Nova Scotia, average 8·38 per cent water.				
10	"	Pr. Ed. Island	"	3·93
10	"	New Brunswick	"	5·66
10	"	Quebec	"	6·34
10	"	St. Hyacinthe	"	7·82
10	"	Montreal	"	8·23
10	"	Ottawa	"	5·13
10	"	Kingston	"	6·70
10	"	Toronto	"	6·14
8	"	London	"	6·14
9	"	Windsor?	"	6·40
10	"	Manitoba	"	11·01
10	"	Calgary	"	11·36
10	"	Nelson	"	7·66
10	"	Vancouver	"	8·25
10	"	Victoria	"	9·73

This showing becomes more emphatic when considered in relation to the average price of butter in the different provinces.

Province.	Number Samples.	Average Price.	Average Water Content.
		cts.	
Nova Scotia.....	10	30·7	8·38
Prince Edward Island.....	10	29·5	3·93
New Brunswick.....	10	32·4	5·66
Quebec .. . . .	30	37·1	7·46
Ontario .. . . .	47	35·3	6·09
Manitoba.....	10	42·5	11·01
Alberta .. . . .	10	44·0	11·36
British Columbia.....	30	41·2	8·55

It appears from the above, that the price of butter of good quality, varies from 29·5 cents per pound in Prince Edward Island, where it is cheapest, to 44·0 cents per pound in Alberta, where the ruling price is highest. But if we consider the cost of the essential component of butter, namely the milk fat, the difference in price at these two extremes is much greater. Alberta butter averages 2·35 per cent of salt ; Prince Edward butter averages 3·01 per cent. So that while 29·5 cents pays for 93·06 per cent butter fat in Prince Edward Island, 44·0 cents pays for only 86·29 per cent butter fat in Alberta. While the nominal difference in price per pound is expressed by the ratio 1 to 1·49 the real difference in cost for the butter fat is 1 to 1·608.

Judging not alone by the present examination, but as the result of analyses recorded in Bulletins No. 219 (211 samples), No. 170 (295 samples), No. 131 (101 samples), &c., I am convinced that the legal maximum of 16 per cent for water in butter is unnecessarily large ; and permits of the placing on the market of butter varying too greatly in actual value, to the disadvantage of the consumer and of the butter maker who is careful to avoid the retention of unnecessarily large amounts of water in his product.



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The following tabulation of fat content gives more direct information regarding the milk-fat values of these butters:—

Below 82·5 per cent fat (legal minimum).	4 samples.
82·5 to 85 per cent. ....	13
85 to 86	6
86 to 87	12
87 to 88	12
88 to 89	12
89 to 90	17
90 to 91	11
91 to 92	29
92 to 93	15
93 to 94	6
94 to 95	7
95 to 96	9
96 to 97	6
Above 97	3
Total	157

Four samples are adulterated, as having less than the legal minimum fat.

The fat is found to be genuine milk fat in every case. In one or two samples it exhibits somewhat exceptional character, but not such as to justify any suspicion of being of foreign origin.

Boracic acid is present in ten (10) samples. This does not constitute legal adulteration, under present regulations. The question of allowing preservatives in butter is under investigation. British law permits boracic acid up to one-tenth of one per cent.

I beg to recommend the publication of this report as Bulletin No. 238.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,

*Chief Analyst.*



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1912.							
Feb. 23	Table Butter....	47041	Yexas, Kentville, N.S.	1 lb ..	25	Unknown .....	Unknown .....
" 26	" .....	47042	J. E. Sanford, Halifax, N. S.	1 " ..	35	Acadia Creamery Co. Kingston, N.S.	Mfrs. ....
" 29	" .....	47043	Ziwick & Co., Lunenburg, N.S.	1 " ..	26	Unknown.....	J. F. Turner, Northfield, N.S.
" 29	" .....	47044	J. S. Berringer, Lunenburg, N.S.	1 " ..	25	" .....	R. Brahum. Blockhouse, N.S.
" 29	" .....	47045	B. G. Oxner, Lunenburg, N.S.	1 " ..	25	" .....	H. A. Mader, Barss Corner, N.S.
Mar 4	" .....	47046	Smith & Proctor, Halifax, N.S.	1 " ..	36	Crapaud Creamery Co., Crapaud, P.E.I.	Mfrs .. .....
" 4	" .....	47047	Rooney & Lovett, Halifax, N.S.	1 " ..	35	Lawrencetown Creamery Co., Lawrencetown, N.S.	" .....
" 4	" .....	47048	P. T. Shea, Halifax, N.S.	1 " ..	35	Bass River Mfg. Co., Bass River, N.S.	" ..
" 5	" .....	47049	Truro Market Ltd., Truro, N.S.	" ..	30	Geo. Chaplin, Middle Stawackie, N.S.	" .....
" 6	" .....	47050	S. Thomson, Dartmouth, N.S.	1 " ..	35	Unknown.....	Bank & Williams Halifax, N.S.

DISTRICT OF PRINCE EDWARD ISLAND—

Feb. 19	Table Butter....	46146	Beer & Goff, Charlottetown, P.E.I.	1 lb	34	Dunstaffnage Butter Co., Dunstaffnage, P.E.I.	
" 15	" .....	46147	Brace & McKay Co. Ltd., Summerside, P.E.I.	1 " ..	25	F. Treholm, Muddy Creek, P. E. I.	
" 15	" .....	46148	" .....	1 " ..	30	Central Creamery Lot 16, P. E. I.	
" 16	" .....	46149	R. T. Holman, Ltd., Summerside, P.E.I.	1 " ..	30	Co-operative Central Creamery, Summerside, P. E. I.	
" 16	" .....	46150	Sinclair & Stewart, Summerside, P.E.I.	1 " ..	25	Unknown .....	
" 19	" .....	46151	Sanderson & Co., Char'town. P.E.I.	1 " ..	27	" .....	Sinclair & Stewart, Summerside, P.E.I.
" 21	" .....	46152	Sterns Bros., Souris, P.E.I.	1 " ..	30	.....	
" 21	" .....	46153	Mathew & McLean, Ltd., Souris, P.E.I.	1 " ..	32	Lakeville Dairying Co., Kings Co., P.E.I.	
" 21	" .....	46154	J. J. Hughes & Co., Souris, P. E. I.	1 " ..	30	Unknown.....	
" 21	" .....	46155	Sterns Son & Co., Souris, P. E. I.	1 " ..	32	East Point Dairying Asso'en, Kings Co., P.E.I.	



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## TABLE BUTTER.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.					Remarks and Opinion of the Chief Analyst.
	Water.	Salt.	Butyrene thermometer reading at 40 C.	Dry saltless Butter.	Free acid.	
R. J. WAUGH, INSPECTOR.						
	p.c.	p.c.		p.		
Local Farmer's Butter...	9.82	2.50	41.1	87.70	N.D.	47041 Genuine.
Dairy.....	9.16	4.51	42.1	86.30		47042
	8.61	4.80	42.1	87.16		47043
	8.32	3.90	43.2	86.78		47044
	3.71	2.96	42.6	91.50		47045
	7.68	1.84	42.3	89.48		47046
	9.04	3.74	42.7	87.22		47047
	8.68	2.14	42.6	89.18		47048
	7.82	2.54	42.1	89.24		47049
Dairy	1.74	4.20	41.8	86.20		47050

**WM. A. WEEKS, INSPECTOR.**

	2.82	1.60	42.0	96.38	N.D.	46146 Genuine.
	3.24	2.60	43.7	92.16		46147
	6.00	6.70	42.8	92.70		46148
	0.60	3.26	42.8	96.14		46149
	7.80	4.26	42.4	87.94		46150
Tub Butter	0.60	1.80	43.0	97.60		46151
	3.82	5.80	41.6	90.40		46152
	1.44	3.60	42.8	94.96		46153
	3.24	5.34	43.4	91.42		46154
	7.18	1.10	42.8	91.72		46155



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NEW BRUNSWICK--

1912.							
Feb.	7	Table Butter.	45591 M.E. Grass, St. John, N.B.	1 lb.	37	Standard Creamery, St. John, N.B.	
"	7	"	45592 W. Fenwick, St. John, N.B.	1 "	32	Thos. A. Goggin, Albert Co., N.B.	
"	15	"	45593 Harry G. McBeath, St. John, N.B.	1 "	36	Maritime Dairy Co., Sussex, N.B.	
"	15	"	45594 H.S. Francis, St. John, N.B.	1 "	34	Jno. E. McAuley, Lower Mill Stream, Kings Co., N.B.	
"	27	"	45595 Jos. W. Robinson, St. Stephen, N.B.	1 "	30	T.L. Boyd, St. David's Parish, Charlotte Co., N.B.	
Mar.	5	"	45596 M. E. Doohan, Fredericton, N.B.	1 "	30	Unknown	
"	6	"	45597 C. B. Snow, Woodstock, N.B.	1 "	28		Philip Isaacson, Woodstock, N.B.
"	8	"	45598 J.W. McPhail, Perth, N.B.	1 "	30	Unknown	Unknown
"	12	"	45599 Sussex Mercantile Co., Ltd., Sussex, N.B.	1 "	37	Maritime Dairy Co., Ltd., Sussex, N.B.	
"	13	"	45600 Mrs. P. White, Moncton, N.B.	1 "	30		David Steeves, Moncton, N.B.

DISTRICT OF QUEBEC--

Feb.	6	Table Butter.	37348 Arthur Rinfret, 414 Rue St. Joseph, Quebec.	1 lb.	33	Unknown	Dom. Fish Co..
"	7	"	37349 Arthur Drolet, 714 Rue St. Valier, Quebec.	1 "	35	Beurrerie Encienne, Lorrette.	Mfr.
"	7	"	37350 " " "	1 "	35	Unknown	Charle Damrais, St. Roch des Auln's.
"	8	"	37351 O. Lacroix, 19 Rue St. Joseph, Quebec.	1 "	35	"	P. A. Caron, Village des Auln's.
"	8	"	37352 " " "	1 "	35	"	"
"	8	"	37353 " " "	1 "	32	"	Emond & Cote..
"	9	"	37354 Hamel & Bedard, 728 Rue St. Valier, Quebec.	1 "	35	Beurrerie St. Augustin.	Mfr....
"	12	"	37355 Cantin & Frere, 291 Rue St. Joseph, Quebec.	1 "	35	Unknown	J. B. Renaud & Cie.
"	12	"	37356 " " "	1 "	35	"	Unknown
"	12	"	37357 " " "	1 "	35	"	"



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TABLE BUTTER.

Inspector's Report. (Is not an expression of opinion.)	RESULTS OF ANALYSIS					Remarks and opinion of the Chief Analyst.
	Water.	Salt.	Butyric acid in butter melting at 40 C.	Dry Matter in butter.	Free acid.	

J. C. FERGUSON, INSPECTOR.

	p. c.	p. c.		p. c.	
Creamery	6.42	1.94	41.8	91.64	None. . . 37301 Creamery.
Country prints. . . . .	1.88	1.26	41.5	96.86	37302
	6.34	1.45	43.1	92.20	37303
Dairy . . . . .	7.08	1.50	43.0	91.42	37304
	6.70	2.08	42.5	91.22	37305
Country print	5.58	4.00	42.4	90.42	37306
	8.96	6.40	41.0	84.64	37307
	2.78	1.66	43.2	93.36	37308
	4.66	2.74	43.0	92.60	37309
Country prints	6.24	4.40	41.7	89.66	37310

F. X. W. E. BELAND, INSPECTOR.

	8.86	2.80	44.0	88.44	None. . . 37318 Genuine.
	5.80	4.00	40.8	90.20	37319
	9.88	2.00	43.3	88.12	37320
	9.36	1.80	42.6	88.64	37351
	5.64	2.20	43.0	92.16	37352
	8.85	6.86	43.8	84.28	37353
	4.64	3.80	43.9	91.56	37354
	7.94	2.08	44.1	89.98	37355
.....	1.44	4.26	43.0	94.30	37356
	0.76	2.04	41.9	97.20	37357



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ST. HYACINTHE—

1912.							
Feb. 19	Table Butter.	39012	R. Bernard, Farn- ham.	1 lb.	38	Unknown.	
" 20	"	39013	H. Huot, St. Jean...	1 "	38	Gunn's Creamery...	Gunn, Langlois & Co., Montreal.
" 20	"	39014	F. Giroux, St. Jean...	1 "	40	Morin Bros., Sabervais.	
" 21	"	39015	F. X. Gagnon, Ma- gog.	1 "	40		Mathews, Ltd., Montreal.
" 22	"	39016	A. Baillargeon, Sher- brooke.	1 "	35		C. McKenzie, Sherbrooke.
Mar. 6	"	39017	Hubert & Jobin, 1 Waterloo.	1 "	38	H. True, Frost Village.	
" 6	"	39018	E. A. Westover, 1 Knowlton.	1 "	38	Mr. Dussault, Knowlton.	
" 12	"	39019	N. Dufault, Sorel....	1 "	38	Gunn's Creamery...	Gunn, Langlois & Co., Montreal.
" 19	"	39020	F. Baril, Warwick...	1 "	35	Jos. Birrette, Warwick.	
" 25	"	39021	Alb. Brodeur, St. 1 Hyacinthe.	1 "	40	A. Casavanet, St. Dominique.	

DISTRICT OF MONTREAL—

Feb. 20	Table Butter.	40801	G. H. Falle, St. Ant- oine Market, Mon- treal.	1 lb.	37	Eastern Township Creamery.	
" 20	"	40802	A. Benoit, St. Antoine, Market, Montreal.	1 "	35		
" 20	"	40803	" " " "	1 "	37		Gunn, Langlois & Co., Ltd.
" 20	"	40804	J. R. Lefebvre, 246 St. Antoine St., Montreal.	1 "	37		
" 20	"	40805	E. E. Wallace, 100 Stanley St., Mon- treal.	1 "	38		
" 20	"	40806	Willisson Bros., 20 Prince Arthur West, Montreal.	1 "	40	Wm. Carson, Springdale Creamery.	
" 20	"	40807	S. L. Mathawson & Son, 18 Ontario st., East, Montreal.	1 "	40		E. E. Wallace..
" 20	"	40808	L. Beauvais, 206 De- montigny, st. West, Montreal.	1 "	38		Gunn, Langlois & Co., Ltd.
" 20	"	40809	L. Frankel, 80 De- montigny st., West, Montreal.	1 "	40		
" 20	"	40810	" " " "	1 "	38		



SESSIONAL PAPER No. 14

## TABLE BUTTER.

Examination Report (Is not an expression of opinion)	Examination Results						Remarks and Signature of Inspector
	Water	Acid	Butyric Acid in 100	Free Sulphur in 100	Free Sulphur in 100	Free Sulphur in 100	

J. C. ROULEAU, INSPECTOR.

8.72	3.64	41.9	86.62	None...	30011
4.72	2.70	43.4	88.20		30012
5.44	2.70	42.7	88.63		30014
6.78	2.70	43.9	88.70		30015
7.50	2.70	44.1	87.74		30016
8.82	3.20	43.5	88.48		30017
7.84	2.70	43.0	89.46		30018
8.58	3.06	44.0	88.70		30019
8.58	2.70	42.9	88.02		30020
8.64	2.84	44.3	88.98		30021

J. J. COSTIGAN, INSPECTOR.

Labelled Special	8.84	2.16	41.2	88.88	None...	40001
	10.10	1.87	41.0	88.09		40002
	10.40	2.20	43.5	87.20		40003
	6.80	2.40	41.0	91.24		40004
	6.06	2.90	41.3	91.34		40005
	7.70	3.08	42.5	88.78		40006
	7.70	1.22	41.2	91.08		40007
	5.28	2.70	43.9	88.78		40008
	10.82	0.20	45.0	88.32	Impure	40009
Labelled Central Dairy Co.	0.42	0.20	43.3	90.48	None...	40010

\* Reagent Mass Number 28.2



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF OTTAWA—

1912.							
Feb.	2 Table Butter....	50111	The Civil Service Co-op. Supply Asso'cn., Ottawa.	1 lb ..	35	Unknown .....	Moyneur, Ottawa.
"	2 " .....	50112	J. Bambrick, Ottawa.	1 " ..	35	A. Trudel & Bro., William St., Montreal.	.....
"	2 " .....	50113	Wall & Co., " ..	1 " ..	35	Unknown ....	Moyneur, Ottawa.
"	2 " .....	50114	S. Diamend, By Ward Market, Ottawa.	1 " ..	33	" .....	Unknown .. ..
"	2 " .....	50115	A. E. Rea & Co., Ltd., Ottawa.	1 " ..	33	" .....	Moyneur, Ottawa.
"	5 " .....	50116	H. H. Layng, Smith's Falls.	1 " ..	32	" .....	Anderson & Langstaff, Kempville.
"	7 " .....	50117	T. R. Dunkin, Cornwall.	1 " ..	40	" .....	James Alexander, Ltd., Montreal.
"	9 " .....	50118	P. A. Huot & Son, Alexandria.	1 " ..	33	" .....	Unknown. ....
"	13 " .....	50119	Stewarts Ltd., Renfrew.	1 " ..	30	" .....	Mrs. Ferguson, Admaston.
"	19 " .....	50120	Jos. P. Valiquette, Dalhousie St., Ottawa.	1 " ..	38	" .....	Moyneur, Ottawa.

DISTRICT OF KINGSTON—

Feb.	5 Table Butter....	49511	Wm. J. Arnil, Kingston.	1 lb ..	38	Eastern Dairy School, Kingston.	.....
"	6 " .....	49512	Wm. Davies, Kingston.	1 " ..	38	Maple Leaf Standard Dairy.	.....
"	7 " .....	49513	H. E. Fairfield, Belleville.	1 " ..	40	G. A. Gillespie, Peterboro'.	.....
"	7 " .....	49514	Thompson Bros., Belleville.	1 " ..	38	Cold Spring, Toronto.	.....
"	7 " .....	49515	C. Hilton, Belleville	1 " ..	38	Jersey Lily Dairy...	.....
"	7 " .....	49516	Geo. Pearson, Belleville.	1 " ..	40	E. B. Mallory, Frankford.	.....
"	8 " .....	49517	J. H. Heal, Peterboro'.	1 " ..	38	Central Smith Dairy Co.	.....
"	8 " .....	49518	J. E. Lillico, Peterboro'.	1 " ..	38	S. A. Sourhworth, Omeme Creamery	.....
"	8 " .....	49519	H. Bradshaw, Peterboro'.	1 " ..	38	G. A. Gillespie, Peterboro'.	.....
"	8 " .....	49520	A. Pearson, Peterboro'.	1 " ..	38	Unknown .....	.....



SESSIONAL PAPER No. 14

TABLE BUTTER.

Inspector's Report Is not an expression of opinion).	RESULTS OF ANALYSIS.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Salt.	Butyric acid and residues at 100°.	Dry saltless Butter.	Boric acid.		
Dairy	1.78	7.16	43.1	91.26	None	50111	Genuine.
Creamery	12.76	2.36	41.7	85.08		50112	
Dairy	11.06	3.20	43.2	85.61		50113	
	5.92	3.50	42.2	90.58		50114	
	4.91	3.08	43.8	92.00		50115	
	1.16	2.14	44.2	86.70		50116	
Maple Leaf Creamery...	2.36	1.70	43.5	96.94		50117	
Dairy .....	5.16	4.78	41.0	90.00		50118	
	0.74	5.36	43.2	94.90		50119	
Creamery	5.89	1.50	44.2	92.70		50120	

JAS. HOGAN, INSPECTOR.

	7.98	1.88	42.9	91.14	None	49511	Genuine.
	13.70	1.40	43.8	84.90		49512	
	10.04	3.80	43.3	86.16		49513	
	3.80	1.50	44.0	94.70		49514	
	9.08	3.34	42.7	87.68		49515	
	3.26	3.56	42.8	92.18		49516	
	7.04	1.60	42.5	91.36	Present.	49517	
	3.16	3.18	44.8	93.66	None. <sup>1</sup>	49518	
	4.42	2.00	44.1	93.58		49519	
	4.52	2.86	43.3	92.62		49520	

<sup>1</sup> Reichert Meissl number 29.2.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quality.	Cents.	Manufacturer.	Furnisher.
1912.							
Feb. 7	Table Butter....	49327	The Duff-Jones Co., Ltd., 216 York St., St., Hamilton.	1 lb.	35	.....	Farmers. ....
" 7	" .....	49328	A. J. Lambert, 17 Market Hall, Ha-Hamilton.	1 "	32	.....	Geo. Detweiller, Cargill.
" 14	" .....	49329	The Wm. Davies Co., Ltd., 1291 Bloor St., St., Toronto.	1 "	38	Vendors .....	.....
" 19	" ....	49330	The Ferguson Produce Co., Shelburne, Ont	1 "	32	.....	Wm. Shields, Shelburne, Ont.
" 20	" .....	49331	McDougal & Evans, Ltd., Owen Sound.	1 "	35	.....	.....
" 20	" .....	49332	Dan. McClean, Owen Sound.	1 "	37	.....	Farmers... ..
" 21	" .....	49333	C. T. Enright, Col-lingwood.	1 "	25	.....	" .....
" 29	" .....	49334	England & Sons, 758 Bathurst St., Toronto	1 "	33	Vendors .....	.....
Mch. 1	" .....	49335	J. McCuaig, Egling-ton, Ont.	1 "	38	.....	E. Brown, Vic-toria Square.
" 2	" ....	49336	Doige Produce Co., 117 Carleton St., Toronto.	1 "	40	.....	D. C. Ross, Brus-sels, Ont.

DISTRICT OF LONDON--

Feb. 19	Table Butter....	47881	Jones & May, Exeter	1 lb.	31	Unknown .....	Unknown .....
" 20	" .....	47894	Beacom & Smyth, Clinton.	1 "	30	" .....	" .....
" 20	" ....	47899	Cantelon Bros., Clin-ton.	1 "	32	" .....	" .....
" 20	" .....	48201	H. Wiltse, Clinton...	1 "	30	A. Innis, Stanley Tp.	.....
" 21	" .....	48211	Cardno Bros., Sea-forth.	1 "	32	Unknown .....	Unknown .....
" 21	" .....	48212	T. S. Blues, Seaforth.	1 "	30	Mrs. Kirton.....	.....
" 22	" .....	48219	KnechtelGrocery Co., Stratford.	1 "	33	Unknown .....	Unknown .....
" 24	" .....	48226	A. Beattie & Co., St. Marys.	1 "	38	St. Marys Creamery Co., St. Marys.	.....



SESSIONAL PAPER No. 14

TABLE BUTTER.

Inspector's Report (Is not an expression of opinion.)	RESULTS OF ANALYSIS.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Salt.	Butyric fractionator reading at 100°.	Dry Salts in Butter.	Potash.		

H. J. DAGER, INSPECTOR.

	l.c.	p.c.		p.c.			
	4.92	1.80	41.7	93.28	None	49327	Genuine.
	2.20	2.30	42.9	95.50		49328	
Woodside Creamery	8.52	1.80	43.3	86.68	Present	49329	
	3.54	3.56	43.6	92.90	None	49330	
	1.84	3.25	42.8	94.91		49331	
	10.84	1.52	42.7	87.64		49332	
	2.28	3.42	46.2	94.30		49333	Probably genuine, but fat of exceptional character.
	10.76	1.96	43.1	87.28		49334	Genuine.
	7.84	3.80	41.8	88.36		49335	
	8.62	2.92	42.9	88.46		49336	

JNO. TALBOT, ACTING INSPECTOR.

	7.28	2.58	43.0	91.14	None	47881	Genuine.
	3.12	1.66	42.8	95.22		47894	
	6.30	2.70	43.0	91.00		47899	
	9.16	4.40	42.5	86.34		48201	
	5.52	3.58	42.5	91.90		48211	
	6.58	2.20	43.0	91.22		48212	
	4.60	0.70	43.0	94.70		48219	
	6.60	2.20	42.5	91.20		48226	

<sup>1</sup> Reichert Meissl number 24.9.  
Polenske 3.0.  
Iodine 45.0.  
14—4



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF WINDSOR—

1912.							
Feb. 13	Table Butter...	47876	Jas. Noble, Strathroy	1 lb..	32	Miss McIntyre, Adelaide.	
" 13	" ..	47878	Wm. Cross, Strathroy	1 " ..	32	Unknown ..	Unknown ..
" 6	" ..	48077	A. J. Clark & Co., London.	1 " ..	40	Kerwood Creamery Co., Kerwood.	
" 7	" ..	48081	E. S. English, London	1 " ..	40	" ..	
" 7	" ..	48084	Wm. Hayes, London.	1 " ..	35	.....	Mrs. Ardell.....
" 7	" ..	48088	S. H. Wilson, London East.	1 " ..	38	Medway Creamery..	
" 8	" ..	48091	Mrs. F. Boug, London West.	1 " ..	36	Maple Leaf Creamery	
" 8	" ..	48093	R. W. Jones, London West.	1 " ..	36	Mrs. Scott.....	
" 8	" ..	48094	J. A. Glin, London West.	1 " ..	40	Medway Creamery, Arva, Ont.	

DISTRICT OF MANITOBA—

Mar. 13	Table Butter...	47479	C. H. Hoffman & Son, grocers, Winnipeg.	1 lb..	45	Crescent Creamery Co., Winnipeg.	Manufacturers..
" 13	" ..	47480	" ..	1 " ..	45	Swift & Co., Winnipeg.	" ..
" 13	" ..	47481	W. R. Straefer, grocer, Winnipeg.	1 " ..	35	Unknown.....	Rosen Salamon, Jarvis Ave., Winnipeg.
" 13	" ..	47482	D. A. Ritchie, grocer, Winnipeg.	1 " ..	40	" ..	The Simpson Produce Co., Winnipeg.
" 14	" ..	47483	D. G. Macdonald, Portage La Prairie.	1 " ..	40	The Ideal Creamery Co., Portage La Prairie.	Manufacturers..
" 15	" ..	47484	G. T. Grant & Co., grocers, Winnipeg.	1 " ..	45	The Carson Hygienic Dairy Co., Winnipeg.	" ..
" 15	" ..	47485	" ..	1 " ..	45	The Crescent Creamery Co., Winnipeg.	" ..
" 15	" ..	47486	Hicks & Gillespie, grocers, Winnipeg.	1 " ..	45	The Carson Hygienic Dairy Co., Winnipeg.	" ..
" 19	" ..	47487	Alex. Reid, grocer, Brandon.	1 " ..	45	The Brandon Creamery & Supply Co., Brandon.	" ..
" 19	" ..	47488	A. M. Percival, grocer, Brandon.	1 " ..	40	" ..	" ..



SESSIONAL PAPER No. 14  
TABLE BUTTER.

RESULTS OF ANALYSIS						Inspector's Report. (Is not an expression of opinion.)	Remarks and Opinion of the Chief Analyst.
Water.	Salt.	Butyric fraction reaching at 40° C.	Dry Saltless Butter.	Boric Acid.	No. of Sample.		

JNO. TALBOT, INSPECTOR.

	p.c.	p.c.		p.c.		
	3.16	1.56	43.0	95.28	None...	47876 Genuine.
	8.60	2.40	43.0	80.50		47878
	6.92	1.70	43.3	91.58		48077
	6.56	1.88	43.3	91.70		48081
	5.46 <sup>1</sup>	3.60	43.5	90.94		48084
	6.28	1.46	42.7	89.26		48088
	9.20	1.50	44.5	86.00		48091
	6.16	1.50	43.6	92.34		48093
	5.38	2.76	42.8	91.86		48094

A. C. LARIVIERE, INSPECTOR.

Crescent Creamery...	15.26	3.16	43.4	81.58	None...	47479 Below standard in fat. Adulterated.
Brookfield Creamery	10.00	3.30	43.9	86.70		47480 Genuine
	2.54	1.52	43.5	95.94		47481
From Cowansville, P.Q..	3.24	1.20	43.6	95.59		47482
	6.16	1.10	43.9	92.80		47483
	13.84	5.50	44.8	80.66		47484 Below standard in fat. Adulterated.
	13.74	1.46	42.9	84.80		47485 Genuine
	13.36	1.66	44.0	84.98		47486
	15.17 <sup>1</sup>	3.38	43.5	81.45		47487 Below standard in fat. Adulterated.
"Prairie Rose"	16.82	3.90	42.5	79.28		47488 Below standard in fat and excess water. Adulterated.

<sup>1</sup> Reichert Meissl number, 29.7.      <sup>2</sup> Reichert Meissl number 28.7.  
14—4½



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF CALGARY—

1912.							
March 6	Table Butter....	44111	Capital Mercantile Co., Edmonton, Alta.	1 lb	45	Gilt Edge Creamery, Edmonton.	....
" 7	"	44112	Hudson Bay Co., Edmonton, Alta.	1 "	40	Swift Packing Co., Evanstown.	....
" 7	"	44113	Acme Co., Edmonton, Alta.	1 "	50	Edmonton City Dairy, Edmonton.	....
" 8	"	44114	Hallier & Aldridge, Edmonton, Alta.	1 "	45	Swift Co., Edmonton.	....
" 8	"	44115	J. H. Morris & Co., Edmonton, Alta.	1 "	45	Flavelle, Ltd., Lindsay, Ont.	....
" 15	"	44116	P. Burns Co., Ltd., Calgary.	1 "	40	Vendors .....	....
" 15	"	44117	Maitland & Co., Calgary.	1 "	45	The Swift Canadian, Calgary.	....
" 15	"	44118	Hallett & Longden, Calgary.	1 "	45	" " .....	....
" 15	"	44119	S. G. Freeze, Calgary.	1 "	45	Campbell & Griffith, Calgary.	....
" 15	"	44120	Calgary Cattle Co., Calgary.	1 "	40	P. Burns & Co., Ltd., Calgary.	....

DISTRICT OF NELSON

Feb. 13	Table Butter...	48493	England & Son, Kamloops, B.C.	1 lb.	45	Swift Canadian Co. Edmonton.	....
" 13	"	48494	" " ..	1 "	45	F. R. Stewart & Co., Vancouver.	....
" 13	"	48495	" " ..	1 "	40	" " ..	....
" 13	"	49601	Hudson Bay Co., Kamloops, B.C.	1 "	40	" " ..	....
" 13	"	49606	Stevens & Alien, Kamloops, B.C.	1 "	40	A. P. Slade & Co., Vancouver.	....
" 13	"	49610	P. Burns & Co., Kamloops, B.C.	1 "	40	Vendors, Calgary.	....
" 20	"	49623	F. L. Rosenberg, Ashcroft, B.C.	1 "	45	New Westminster Creamery Co., New Westminster.	....
" 20	"	49624	J. J. Ling & Co., Ashcroft, B.C.	1 "	40	W. H. Malkin Co., Vancouver.	....
" 20	"	49625	" " ..	1 "	40	Swift Canadian Co., Edmonton.	....
" 20	"	49626	" " ..	1 "	40	Milne & Gunn, Vancouver.	....



SESSIONAL PAPER No. 14

TABLE BUTTER.

Inspector's Report (Is not an expression of opinion.)	RESULTS OF ANALYSIS.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Salt.	Butyro-re- fractometer reading at 10 C.	Dry saltless Butter.	Butt. acid.		

R. W. FLETCHER, INSPECTOR

	p. c.	p. c.		p. c.		
	12.36	1.52	42.7	86.12	Present.	44111 Genuine.
	10.52	2.70	43.5	84.78	None.	44112
	10.40	1.90	43.0	87.79		44113
	7.04	1.00	45.1	91.66		44114
	10.88	3.08	43.7	86.04		44115
	11.50	3.40	43.2	84.00		44116
	13.40	2.00	42.7	84.54		44117
	11.02	1.50	42.9	87.48		44118
	12.34	2.22	43.9	85.14	Present.	44119
" Shamrock " Brand	14.08	2.84	45.5	83.18	None.	44120

THOS. PARKER, INSPECTOR

	5.20	2.00	45.3	92.80	None. <sup>2</sup>	48493 Genuine.
	12.06	1.00	43.2	86.28	"	48494
	9.14	1.60	42.5	89.26		48495
	3.80	1.00	42.8	95.20		48496
	13.52	2.08	42.3	84.40		49606
	3.14	1.56	44.0	95.30		49610
	6.68	2.00	45.2	91.32		49623
	8.24	2.30	43.3	89.46		49624
	8.06	1.66	43.5	90.28		49625
	6.72	1.58	43.5	91.70		49626

<sup>1</sup> Reichert Meissl number, 25.0.    <sup>2</sup> Reichert Meissl number, 26.0.    <sup>3</sup> Reichert Meissl number, 28.3.



Date of Collection.	Nature of Sample	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VANCOUVER—

1912.							
Feb. 13.	Table butter....	38265	J. Graham, Milner, B.C.	1 lb..	40	New Zealand Produce Co., Pahiatua, N.Z.	
" 13.	"	38266	Burrows & Carncross, Cloverdale, B.C.	1 " ..	40		A. P. Slade & Co., Vancouver.
" 13.	"	38267	H. V. Parr, Cloverdale, B.C.	1 " ..	35	Unknown	Farmers....
" 13.	"	38268	Lillie's Cash Grocery, Chilliwack, B.C.	1 " ..	35		A. P. Slade & Co., Vancouver.
" 13.	"	38269	Ashwell's Dept. Store, Chilliwack, B.C.	1 " ..	40	Chilliwack Creamery, Chilliwack, B.C.	
" 14.	"	38270	McFee & Kerr, Abbotsford, B.C.	1 " ..	35	J. Wolfe, Abbotsford, B.C.	
" 14.	"	38271	S. Brook, Abbotsford, B.C.	1 " ..	10		F. R. Stewart & Co., Vancouver.
" 14.	"	38272	N. Antier, Abbotsford, B.C.	1 " ..	45	Abbotsford Valley Creamery, Abbotsford.	
" 15.	"	38273	Bowie's Bakery, Mission Jct., B.C.	1 " ..	40		A. P. Slade & Co., Vancouver.
" 15.	"	38274	Des Brisay Gen. Store, Mission Jct., B.C.	1 " ..	40		W. H. Malkin & Co., Vancouver.

DISTRICT OF VICTORIA

Feb. 27.	Table butter	47681	Windsor Grocery Co., Victoria, B.C.	1 lb.	50	Cowichan Creamery Association, Duncan, B.C.	
" 27.	"	47682	Windsor Grocery Co., Victoria, B.C.	1 "	50	Salt Spring Island Creamery, Ganges Harbour, B.C.	
" 28.	"	47683	The West End Grocery Co., Ltd., Victoria, B.C.	1 " ..	35		R. S. Rithet & Co., Victoria, B.C.
" 28.	"	47684	The West End Grocery Co., Ltd., Victoria, B.C.	1 " ..	40		B. Wilson Co., Ltd., Victoria, B.C.
" 29.	"	47685	D. H. Ross & Co., Victoria, B.C.	1 " ..	40		Wilson Bros., Victoria, B.C.
" 29.	"	47686	D. H. Ross & Co., Victoria, B.C.	1 " ..	50	Island Creamery Association, Victoria, B.C.	
Mar. 1.	"	47687	Copas & Young, Victoria, B.C.	1 " ..	40	The Comox Creamery Association, Courtenay, B.C.	
" 1.	"	47688	Wm. B. Hall, Victoria, B.C.	1 " ..	45	Northwestern Creamery, Victoria, B.C.	
" 6.	"	47689	Harrison & McDonald, Victoria, B.C.	1 " ..	40		Northwestern Creamery, Victoria, B.C.
" 6.	"	47690	Acton Bros., Victoria, B.C.	1 " ..	40		B. Wilson Co., Ltd., Victoria, B.C.



SESSIONAL PAPER No. 14

TABLE BUTTER.

Inspector's Report (not an expression of opinion.)	Results of Analysis					Number Sample	Remarks, and Opinion of the Chief Analyst.
	Water	Butterfat	Protein	Carb. Hydr.	Dry Solids		

J. E. POWER, INSPECTOR.

	p. c.	p. c.	p. c.		
13.82	2.36	43.0	83.98 Present	47680	
11.84	2.20	43.0	85.96 None.	47681	
9.70	1.46	42.9	93.84	47682	
10.80	1.34	43.1	84.20	47683	
7.94	2.1	43.5	97.36 Present	47684	
11.80	1.34	43.1	84.20 None.	47685	
10.80	1.34	43.1	84.20	47686	
11.80	1.34	43.1	84.20	47687	
9.81	2.34	43.1	87.82	47688	
7.13	3.20	43.1	89.68 Present	47689	

D. OSULLIVAN, INSPECTOR.

	10.40	0.50	43.2	80.10 None	47691
	9.50	0.50	42.6	89.40	47692
White Cheese Creamery	7.10	2.66	44.0	80.24	47693
Forest Hill Creamery	7.24	1.20	42.7	91.36	47694
Arden Creamery	9.00	1.60	44.4	89.40	47695
Eden Creamery	7.88	0.54	42.1	91.48	47696
	10.40	1.40	42.2	88.20	47697
Northwestern Creamery	6.92	1.56	43.4	91.52	47698
	11.24	1.30	42.2	84.46	47699
Lowell Grove Creamery	15.04	2.26	43.0	82.70 Present.	47700



## APPENDIX C.

## BULLETIN No. 239—CIDER AND SWEET CIDER.

OTTAWA, May 14, 1912.

WM. HIMSWORTH, Esq.,  
Ass't Deputy Minister of Inland Revenue.

SIR.—I beg to report upon sixty-nine (69) samples of beverages sold as Cider or as Sweet Cider.

These terms are defined by Order in Council taking effect from March 13, 1911.

Cider is defined as follows :—

4. Cider, Hard Cider, is the product made by the normal alcoholic fermentation of apple juice, and the usual cellar treatment, and contains not more than seven (7) per cent by volume of alcohol, and in one hundred (100) cubic centimetres (20° C.) of the cider, not less than two (2) grammes nor more than twelve (12) grammes of solids, not more than eight (8) grammes of sugars, in terms of reducing sugars, and not less than twenty (20) centigrammes nor more than forty (40) centigrammes of cider ash.

Of thirty-three samples sold as Cider, twenty-seven samples meet the requirements of legal definition, and must be recognized as genuine, under the Act. Six samples which fail to meet the standards named, appear to have had water added to the apple juice. This is indicated by the small amount of mineral matter (ash) present. Six samples contain preservatives.

Apple Juice or Sweet Cider is defined as follows :—

2. Apple Juice, Apple Must, Sweet Cider, is the fresh fruit juice obtained from apple, the fruit of *Pyrus malus*, has a specific gravity (20° C) not less than 1.0415 nor greater than 1.0690; and contains in one hundred (100) cubic centimetres (20° C.) not less than six (6) grammes, and not more than twenty (20) grammes of total sugars, in terms of reducing sugars, not less than twenty-four (24) centigrammes nor more than sixty (60) centigrammes of apple ash, which contains not less than fifty (50) per cent of potassium carbonate.

Out of thirty six samples sold as Cider, only eight are found to meet the requirements of the legal definition. It may be urged, in some cases, that the definition quoted does not apply since the articles are labelled with modified names as "Champagne Cider", "Raspberry Cider", &c.; but so long as the word cider appears upon the label, and the beverage is supplied to our inspectors on a demand for cider, it seems proper to judge the article as cider.

In connection with Compound (hyphenated) names, it is important to note that these names must not misrepresent the article. Where one of the components is itself a legal name for a specific article such as Cider, Wine, Coffee, &c., it is evident that the compound name can only apply properly to an article of which the specific constituent in question is the essential or basic part. Thus Coca Wine, implies the presence of wine; Champagne Cider, implies the presence of Cider; Decaffeinated Coffee implies the presence of Coffee, &c.

Our beverage standards provide for the use of the terms Sparkling Cider; Champagne Cider; but define this article as "*Cider*, impregnated with carbonic acid,



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&c.' A solution of sugar and flavouring extracts is not cider, and the impregnating of such a solution with gas, does not constitute it a sparkling cider.

Imitations of cider, if labeled so as not to deceive, are legitimate articles, provided they contain nothing injurious to health.

There are certain beverages, such as Ginger Ale, Ginger Beer, Sassafras Beer, Root Beer, &c., which have been long in use, and are well understood to be non-alcoholic, although involving the terms ale and beer, which properly apply to alcoholic beverages. In the case of these articles, it may be pleaded that long usage and public acceptance justifies the name, and it is possible that the plea may hold good. It is not a part of the duty of this Department to make language. This must be decided by popular usage. But it is our duty to see that language is employed in such a way as to guide the purchaser, and not to deceive him. Final ruling in cases of this kind, must be based upon the careful study of the particular matter in hand. So far as I know, nothing else than the juice of apples (fermented or unfermented) is entitled to the term cider used either simply or in combination. Such a name as "Raspberry Cider" means nothing, unless it implies an apple juice flavoured with raspberry.

Such a name as "Boiled Cider" or "Concentrated Cider" or "Condensed Cider," if applied to an article made from cider by boiling, would appear to be perfectly proper, as correctly describing the material sold. If applied to an artificial solution, in imitation of a cider concentrate, it would, of course, be misleading and fraudulent.

There need, I venture to think, be no difficulty in so naming any modification of apple juice as to correctly inform the purchaser regarding what is supplied to him. Apple juice, pure and simple, is not cider, any more than grape juice is wine. Fermentation is essential to the production of cider. The name *Sweet Cider* is recognized, by wide usage, as an equivalent for apple juice.

If it be desired to remove the alcohol from fermented apple juice, the resultant beverage is properly described as de-alcoholized cider, or non-alcoholic cider, or by some other plain and intelligible name. If it be desired to keep the alcohol in a cider below a fixed percentage, and this be accomplished by adding water, or sugar and water, to the article, this can correctly be described as watered cider, or diluted cider. But it must not be sold as cider.

It must be clearly understood that the word adulterated in this bulletin, is used conformably to Section 3, g, of the Adulteration Act, which states that "food shall be deemed to be adulterated if its strength or purity falls below the standard, &c.

This is no suggestion of the addition of anything harmful to health.

Since this is a first inspection under legal definition, it is open to question whether the penalties prescribed by the Act need be enforced. It may be reasonable to regard this inspection and report rather as a means of bringing these recently enacted standards to the notice of the trade, and the public.

The last inspection of cider was made in July and August, 1908; and was reported as Bulletin No. 169 in December of that year.

I would respectfully recommend publication of the present report as Bulletin No. 239

I have the honour to be, sir, your obedient servant,

A. MCGILL,  
Chief Analyst.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantit	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA—

1912.								
Feb. 19	Sweet Cider.	47026	Wentzels, Ltd., Halifax, N.S.	3 bots.	25	Annapolis Valley Cider Co., Bridgetown, N.S.	Mfrs..	Sold as Apple Cider.
" 23	"	47028	Annapolis Valley Cider Co., Bridgetown, N.S.	3 "	Nil.	Vendors.....		"
Mar. 6	"	47030	Jas. Rowe, Halifax, N.S.	3 "	Nil.	Cleveland Cider Co., Ohio, U.S.	Mfrs.....	"

DISTRICT OF PRINCE EDWARD ISLAND—

Feb. 14	Sweet Cider.	46171	R. F. Maddigan & Co., Charlottetown P.E.I.	3 bots.	30	Annapolis Valley Cider Co., Ltd.		
" 16	"	46173	J. Ching, Summerside, P.E.I.	3 "	30		N. Rathenbury Ltd., Charlottetown P.E.I.	
" 16	Orange Cordial.	46174	J. M. Noonan, Summerside, P.E.I.	3 "	30	G. E. Barbour & Co., Ltd., St. John, N.B.		

DISTRICT OF NEW BRUNSWICK—

Feb. 6	Sweet Cider.	45611	W. A. Simonds, St. St. John, N.B.	3 bots.	60	Annapolis Valley Cider Co., Ltd., Bridgetown, N.S.		Bottled Cider.
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DISTRICT OF QUEBEC—

Feb. 6	Sweet Cider.	37368	Arthur Rinfret, 414 Rue St. Joseph, Quebec.	3 "	40	F. A. Fleuet, Quebec.	Mfr .....	
" 7	"	37370	Arthur Drolet, 414 Rue St. Valier, Quebec.	3 "	18	Chas. Bedard, Quebec.	" .....	
" 12	"	37372	Cantin & Frère, 271 Rue St. Joseph, Quebec.	3 "	18	Eliz. Fortier & Co., Quebec.	" .....	
" 13	"	37400	P. Reneaud, 537 Rue St. Valier, Quebec	3 "	25	F. A. Fleuet & Cie, Quebec.	" .....	

DISTRICT OF ST. HYACINTHE—

Mar. 12	Sweet Cider.	39048	Pierre Paul, Sorel	1 bot.	15	Dme. X. Berard, Sorel.		
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## SWEET CIDER.

## RESULTS OF ANALYSIS.

Sp. Gr. of Cider at 15.5°C.	Sp. Gr. of Dis- tillate.	Sp. Gr. of Res- idue.	Alcohol by Vol- ume.	Grammes per 100cc.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Ash.	Undeter- mined Solids	Alkalinity of Ash as K <sup>2</sup> CO <sup>3</sup>	Preservatives.		
R. J. WAUGH, INSPECTOR.													
1.0373	0.9994	1.0383	0.40	9.26	6.87	2.41	9.28	0.21	0.47	0.10	None	47026	Density and ash nearly up to standard. Doubtful.
1.0312	0.9993	1.0316	0.46	8.20	0.84	5.75	6.59	0.11	1.51	0.04	"	47028	Density and ash too low. Ad- ulterated.
1.0380	0.9992	1.0388	0.53	9.44	3.72	4.54	8.26	0.04	1.14	0.02	"	47030	Ash too low. Watered. Ad- ulterated.

## WM. A. WEEKS, INSPECTOR.

1.0213	0.9979	1.0238	1.42	11.17	8.20	0.81	9.01	0.08	2.08	0.05	None	46171	Density and ash low. Adul- terated.
1.0275	0.9983	1.0285	1.13	7.28	5.64	None.	5.64	0.15	1.50	0.10	"	46173	Density and ash low. Adul- terated.
1.0546	0.9979	1.0566	1.42	14.73	10.96	1.80	12.76	0.05	1.92	0.01	"	46174	Not sold as Cider.

## J. C. FERGUSON, INSPECTOR.

1.0300	0.9991	1.0310	0.60	7.86	5.48	1.56	7.04	0.09	0.73	0.04	None.	45611	Density and ash low. Adul- terated.
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## F. X. W. E. BELAND, INSPECTOR.

1.0273	0.9998	1.0282	0.13	7.50	1.40	5.40	6.80	0.16	0.54	0.005	None.	37368	Density and ash low. Adul- terated.
1.0225	0.9995	1.0230	0.33	6.06	4.69	1.28	5.97	0.08	None.	0.02	"	37370	"
1.0320	1.000	1.0320	None.	8.87	0.95	7.70	8.65	0.12	0.10	0.01	"	37372	"
1.0362	0.9998	1.0372	0.11	9.68	1.12	7.39	8.51	0.08	1.10	0.01	"	37400	"

## J. C. ROULEAU, INSPECTOR.

1.0193	0.9996	1.0197	0.33	5.28	0.60	3.40	4.00	0.04	1.24	0.02	None.	39048	Density and ash low, adulte- rated.
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Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of the Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF MONTREAL—

1912.								
Feb. 24	Sweet Cider.	40837	Robert Millar, 168 St. Maurice St., Montreal.	3 bots.	30	.....	..	Bottled by Vendor. Labelled Royal Windsor Champagne Cider.
Mar. 8	"	40839	Harris Co., 158 De montigny St., Montreal.	3 "	15			Labelled Christin's Champagne Cider
" 8	"	40840	S. Dionne, 140 Dorchester St. E., Montreal.	3 "	25			Labelled Sweet Apple Cider

DISTRICT OF OTTAWA—

Feb. 20	Sweet Cider.	50131	Calderone & Bossio, Ottawa.	3 bots.	15	S. Patterson & Co., Toronto.	H.S. Anstiss & Co., Ottawa.	Apple Cider..
" 20	"	50132	H. N. Anstiss, Ottawa.	3 "	15	"	Mfrs.....	..

DISTRICT OF KINGSTON—

Feb. 5.	Sweet cider.	49531	Geo. Thompson, Kingston.	1 qt..	15	Belleville Cider and Vinegar Co.		
" 5.	"	49532	E. Beaupre, Kingston.	1 "	15	S. Allen, Norwich.		
" 8	"	49554	P. S. White, Kingston.	1 "	10	"		

DISTRICT OF TORONTO—

Feb. 20.	Sweet cider.	49363	Taylor & Pringle Co., Ltd., Owen Sound.	3 bots.	15	Vendors.		
Mar. 4.	"	49364	S. Patterson & Co., 318 Berkley st., Toronto.	3 "	25	"		Genuine Apple Cider.
" 4.	"	49365	T. B. Franklin, 729 Queen st. East, Toronto.	3 "	10		The Whitby Fruit and Vinegar Co., Whitby.	
" 4	"	49366	Mrs. R. Craig, 170 Christie st., Toronto.	3 "	20		Kemp Beverage Co., Toronto.	Champagne Cider.



SESSIONAL PAPER No. 14  
SWEET CIDER.

RESULTS OF ANALYSIS													
Sp. Gr. of Cider at 15.5 C.	Sp. Gr. of Distillate.	Sp. Gr. of Residue.	Alcohol by Vol.	Grammes per 100 CC.								No. of Sample.	Remarks, and Opinion of the Chief Analyst.
				Total Solids.	Invert Sugar.	Sucrose.	Total Solids.	Water.	Unfermented Solids.	Alkalinity of Ashes as $K_2CO_3$ .	Preservatives.		
J. J. COSTIGAN, INSPECTOR.													
1.0183	0.9996	1.0184	0.26	4.64	1.34	3.18	4.52	0.04	0.08	0.02	None.	40837	Density and ash low. Adulterated.
1.0288	0.9996	1.0295	0.26	7.38	1.29	5.50	6.79	0.32	0.27	None.		40839	Density and Alkalinity of ash too low. Adulterated.
1.0274	0.9982	1.0276	1.19	7.22	6.01	0.22	6.23	0.11	0.89	0.04		40840	Density and ash low. Adulterated.
J. A. RICKEY, INSPECTOR.													
1.0543	0.9975	1.0575	1.73	14.64	10.40	1.77	12.17	0.34	2.15	0.24	Benzoic acid.	40131	Genuine.
1.0658	1.0000	1.0659	None.	13.75	12.49	None.	12.49	0.30	0.74	0.24		40132	
JAS. HOGAN, INSPECTOR.													
1.0175	0.9994	1.0159	0.40	9.52	5.21	1.99	7.20	0.24	2.08	0.18	Salicylic acid.	49331	Density low. Adulterated.
1.0355	0.9981	1.0370	1.26	9.16	7.24	0.23	7.47	0.16	1.57	0.12	Benzoic acid.	49332	Density and ash low. Adulterated.
1.0463	0.9992	1.0467	0.53	11.45	8.70	None.	8.70	0.29	2.46	0.25	None.	49334	Genuine.
H. J. DAGER, INSPECTOR.													
1.0552	0.9982	1.0547	1.19	15.57	9.78	1.05	10.83	0.30	2.54	0.22	Benzoic acid.	49363	Genuine.
1.0596	0.9994	1.0605	0.40	15.27	11.47	1.43	12.90	0.32	2.05	0.24		49364	
1.0736	0.9998	1.0744	0.13	18.81	12.95	2.70	15.65	0.39	2.77	0.25		49365	
1.0373	0.9995	1.0376	0.33	10.82	5.48	3.07	8.55	0.04	2.23	0.02	None.	49366	Density and ash low. Adulterated.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of the Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF MANITOBA

1912.								
Feb. 19.	Cham-pagne.	48616	Carson's Confection-ery, Main st. North, Winnipeg.	3 bots.	75	The Blackwoods, Ltd., Winni-peg.	Mfrs	Orange Pure Fruit Cham-pagne.
" 19.	Sweet cider.	48617	Prairie Restaurant, Main st. North, Winnipeg.	3 "	60	E. L. Drewry, Winnipeg.	"	Orange Cider.
" 19	"	48619	The White Star Mfg. Co., Winnipeg.	3 "	35	Vendors.....		"
" 19.	"	48620	" "	3 "	25	" ...		Raspberry Ci-der.

DISTRICT OF CALGARY—

Mar. 9.	Sweet cider.	44133	Hallier & Aldridge, Edmonton.	3 bots.	60	.....	Brown & Co., Ed-monton.	
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DISTRICT OF NELSON—

Feb. 26.	Sweet cider.	49635	J. A. McDonald, Nelson.	3 bots.	30	Spokane Cider Works, Spo-kane, U.S.		
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DISTRICT OF VANCOUVER—

Feb. 19.	Boiled cider.	38305	New Westminster Co-op. Association, New Westminster.	3 bots.	90	W. K. Houston, Victoria, B.C.		Pure Boiled Cider.
" 19	Sweet cider.	38396	Gold Seal Liquor Co., Ltd., Vancou-ver, B.C.	3 "	45	Am. Fruit Pro-ducts Co., Ro-chester, N.Y.		Duffy's refined pure fruit champagne cider. Bot-tled by Ven-dors.
" 19	"	38307	F. Filion, Carrall st., Vancouver, B.C.	3 "	75	Pacific Mfg. Co., Victoria, B.C.		Cham-pagne Cider.
" 19	"	38308	Hudson's Bay Co., Vancouver, B.C.	3 "	75	.....	Cross & Co., Vancouver	Allen's pure Apple Cider

DISTRICT OF VICTORIA—

Feb. 28.	Boiled cider.	49116	The West End Gro-cery, Victoria, B.C.	3 bots.	100	.....	W. K. Hous-ton & Co., Victoria, B.C.	Pure Boiled Cider.
Mar. 1.	Sweet cider.	49118	Copas & Young, Vic-toria, B.C.	3 "	66	.....	C. Morely, Victoria, B.C.	Celebrated Or-egon cider.



SESSIONAL PAPER No. 14

SWEET CIDER.

RESULTS OF ANALYSIS.														Remarks and Opinion of the Chief Analyst.
Sp. Gr. of Cider at 15.5 C.	Sp. Gr. of Distillate	Sp. Gr. of Residue	Alcohol by Vol	Constituents per 100 CC.								No. of Sample		
				Total Solids	Insoluble Solids	Protein	Total Sugar	Ash	Unfermented Hydroalcohols	Acidity as Acetic Acid	Preservative			
A. C. LARIVIERE, INSPECTOR.														
1.0307	0.9992	1.0517	0.53	7.82	1.40	8.42	8.40	0.12	1.17	0.09	Salicylic acid.	48616	Density and ash low. Not sold as cider.	
1.0234	0.9997	1.0249	0.20	11.05	3.40	5.51	8.91	0.22	1.92	0.15		48617	Density and ash low. Adulterated.	
1.0122	0.9978	1.0444	1.49	11.12	0.32	8.90	9.22	0.12	1.73	0.10	Benzoic acid	48619	Ash low. Adulterated.	
1.0487	0.9997	1.0496	0.20	13.17	0.26	10.63	10.89	0.14	1.14	0.09		48620		
R. W. FLETCHER, INSPECTOR.														
1.0105	0.9975	1.0127	1.73	1.89	2.34	None	7.41	0.16	0.70	0.09	Salicylic acid	44133	Density and ash low. Adulterated.	
THOS. PARKER, INSPECTOR.														
1.0415	0.9977	1.0478	1.73	12.07	7.74	1.75	7.86	0.23	2.34	0.18	Benzoic acid	44002	Genuine.	
J. E. POWER, INSPECTOR.														
1.2499	0.9987	1.2516	0.80	61.08	44.00	1.75	46.37	1.36	13.41	1.13	Benzoic acid	48600	Concentrated with addition of sugar.	
1.0004	0.9898	1.0117	0.13	7.66	0.62	0.47	1.19	0.26	1.21	0.22	None.	48605	Density and sugar too low. Adulterated.	
1.0298	0.9972	1.0531	1.96	8.28	7.08	None	7.08	6.20	1.00	0.13		38307	Density and ash low. Adulterated.	
1.0341	0.9982	1.0360	1.19	8.64	0.92		6.96	1.20	1.52	0.19	Salicylic acid	48608	Density and ash low. Adulterated.	
D. O'SULLIVAN, INSPECTOR.														
1.2598	0.9998	1.2325	0.79	60.00	47.00	3.52	50.52	1.40	9.08	1.19	Benzoic acid.	49116	Concentrated with added sugar.	
1.0540	0.9997	1.0542	0.20	13.63	8.67	2.22	10.89	0.27	2.47	0.24		49118	Genuine.	



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA—

1912.								
Feb. 23	Hard Cider.	47027	P. N. Bishop, Kent ville, N.S.	3 bots.	10	F. Drake, New Glasgow, N.S.	Mfr . . . .	Sold as Apple Cider.
Mch. 5	"	47029	F. Drake, New Glasgow, N.S.	3 "	Nil.	S. Allen, Norwich, Ont.	" . . . .	"

DISTRICT OF PRINCE EDWARD ISLAND—

Feb. 14	Hard Cider.	46172	J. P. Duffy, Charlottetown, P.E.I.	3 bots.	30	S. Allen, Norwich, Ont.		
" 21	"	46175	M. A. Paquet, Souris, P.E.I.	3 "	25		Sussex Mineral Spring Co., Sussex, N.B.	

DISTRICT OF NEW BRUNSWICK—

Feb. 15	Hard Cider.	45612	Harry G. McBeath, St. John, N.B.	3 bots.	15		Dearborn & Co., St. John, N.B.	Bulk Cider.
Mch. 5	"	45613	Wm. P. Grannan, Fredericton, N.B.	3 "	15		H. Crotty, Fredericton, N.B.	Allen's refined Apple Cider, Norwich, Ont.
" 12	"	45615	King, Asbell & Co., Sussex, N.B.	3 "	15		Willett Fruit Co., St. John, N.B.	

DISTRICT OF QUEBEC—

Feb. 7	Hard Cider.	37369	Arthur Drolet, Rue St. Valier, Quebec.	714 3 bots.	60	Belvil Fruit and Vinegar Co., Bristol.	Langlois & Paradis.	
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DISTRICT OF ST. HYACINTHE—

Feb. 20	Hard Cider.	39046	A. C. Poutre, St. Jean.	3 bots.	30	Unknown	Unknown	
Mch. 25	"	39049	Thos. Hebert, Hyacinthe.	St. 1 "	10	Wilson, Lytle & Badgerow, Toronto.		



SESSIONAL PAPER No. 14  
HARD CIDER.

RESULTS OF ANALYSES.												No. of Sample.	Remarks and Opinion of the Chief Analyst.		
Sp. Gr. of Cider at 15.5° C.	Sp. Gr. of Distillate.	Sp. Gr. of Residue.	Alcohol by Vol.	Constituents per 100 cc.											
				Water.	Alcohol.	Acid.	Residue.	Phosphoric Acid.	Calcium.	Phosphoric Acid.	Residue.			Phosphoric Acid.	Calcium.

R. J. WAUGH, INSPECTOR.

1.0255	0.9957	1.0218	3.07	6.7	4.88	None	4.88	0.20	1.11	0.11	None	47027	Genuine.
1.0142	0.9955	1.0120	3.55	4.27	3.66		2.46	0.25	2.00	0.12		47029	

WM. A. WEEKS, INSPECTOR.

1.0250	0.9964	1.0295	2.38	7.74	6.60	None	6.60	0.28	0.94	0.10	None	46172	Genuine.
1.0291	0.9971	1.0227	2.64	8.39	7.08		7.08	0.14	1.17	0.08		46173	Apple juice watered.

J. C. THURSON, INSPECTOR.

1.0360	0.9957	1.0400	3.07	9.79	7.24	0.66	7.29	0.36	2.14	0.32	Benzoic Acid.	46112	Genuine.
1.0267	0.9965	1.0305	2.43	7.47	6.23	None	6.23	0.24	1.30	0.10		46113	
1.0067	0.9949	1.0141	5.88	3.14	0.66		0.66	0.30	1.80	0.21	Salicylic Acid.	46115	

F. X. W. E. BELAND, INSPECTOR.

1.0216	0.9927	1.0281	5.24	7.22	1.84	None	1.84	0.24	2.14	0.29	None	37000	Genuine.
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J. C. ROULEAU, INSPECTOR.

1.0059	0.9912	1.0148	6.48	3.52	1.64	0.20	1.84	0.30	1.38	0.25	None.	39046	Genuine.
1.0333	0.9925	1.0105	5.39	2.22	0.74	None.	0.74	0.10	1.58	0.07		39049	Ash too low. Apple juice watered. Adulterated.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.      Furnisher.	

DISTRICT OF MONTREAL—

1912.							
Feb. 21	Hard Cider.	40836	Robert Millar, 168 St. Maurice St., Montreal.	3 bots	30	.....	Allen's Apple Cider. Bottled by Vendor.
Feb. 8	"	40838	J. T. Mallette, Ontario Street East, Montreal.	3 "	30	.....	Labelled Millar's Celebrated Genuine Sparkling Apple Cider

DISTRICT OF OTTAWA—

Feb. 20	Hard Cider.	50133	C. Stratton, Ottawa.	3 bots	15	Allen, Norwich, Ont.	C. E. Plain, Apple Cider.. Ottawa.
" 20	"	50134	Bate & Co., Ottawa.	3 "	75	Ross Bros., Liverpool, Eng.	Chas. Parker, Ottawa Ross' Sparkling Devonshire Cyder.
" 21	"	50135	A. E. Rea & Co., Ltd., Ottawa.	3 "	75	S. Allen, Norwich, Ont.	C. E. Plain, Apple Cider.. Ottawa.

DISTRICT OF KINGSTON—

Feb. 7	Hard cider	49525	S. Fort, Port Hope.	1 qt.	10	S. Allen, Norwich, Ont.	.....
" 7	"	49535	W. D. Stephens, Port Hope.	1 "	10	"	.....

DISTRICT OF TORONTO—

Feb. 8	Hard cider	49362	A. Ballentine & Bros., 171 John St., South Hamilton.	3 bots	15	S. Allen, Norwich, Ont.	.....
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DISTRICT OF WINDSOR—

Feb. 12	Hard cider	47871	A. H. Gammon & Son, Sarnia.	3 bots	8	.....	S. Allen, Norwich.
" 13	"	47874	W. H. Trecker, Sarnia.	3 "	5	.....	"
" 13	"	47875	Peter Clark, Sarnia.	3 "	8	Whitby Cider & Vinegar Co., Whitby, Ont.	.....



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## HARD CIDER.

RESULTS OF ANALYSIS.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
Sp. Gr. of Cider at 15°C.	Sp. Gr. of Distill- ate.	Sp. Gr. of Residue.	Alcohol by Vol- ume.	Grams per 100cc.							
				Total Solids.	Invert Sugar.	Glucose.	Total Acids.	Alkal.	Unfer- mented Solids.		
Precipitate.											

## J. J. COSTIGAN, INSPECTOR.

1-0271	0-9931	1-0315	4-00	8-30	7-40	None.	7-40	0-20	0-30	0-14	None.	4883	Genuine.
1-0072	0-9901	1-0120	6-63	3-92	1-34	1-34	1-36	0-21	1-13	0-18		4884	

## J. A. RICKY, INSPECTOR.

1-0292	0-9902	1-0345	3-42	6-11	6-07	0-62	7-39	0-31	1-24	0-24	None.	4885	Genuine.
1-0211	0-9944	1-0270	3-98	6-07	6-15	None.	5-43	0-27	1-03	0-17		4886	
1-0105	0-9941	1-0100	4-20	4-84	4-69		4-80	0-42	0-60	0-11		4887	Ad. Sample. Apple put to watered. Ad. detected.

## JAS. HOGAN, INSPECTOR.

1-0227	0-9954	1-0270	3-28	6-30	4-00	1-00	5-00	0-20	1-02	0-10	None.	4888	Genuine.
1-0263	0-9944	1-0321	4-08	8-00	5-91	0-20	6-11	0-28	1-63	0-10		4889	

## H. J. DAGER, INSPECTOR.

1-0140	0-9922	1-0217	3-03	5-04	2-76	0-35	5-11	0-28	1-00	0-26	None.	4890	Genuine.
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## JNO. TALENT, INSPECTOR.

1-0520	0-9957	1-0127	3-07	6-44	5-16	0-95	4-11	0-29	2-64	0-29	None.	47871	Genuine.
1-0010	0-9905	1-0105	6-24	2-68	0-52	0-12	0-64	0-32	1-70	0-26		47874	
1-0199	0-9940	1-0253	5-00	6-15	3-24	2-50	5-01	0-30	0-84	0-24	Ben- zoic acid.	47875	



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF MANITOBA—								
1912.								
Feb. 19	Hardeider	48618	The Blackwood Ltd., Winnipeg.	3 bots.	Nil.	Vendors...		Apple cider...
DISTRICT OF CALGARY								
Mar. 9	Hardeider	44131	Acme Co., Edmonton	3 bots.	60	Annapolis Valley Cyder Co., Ltd., Bridge-town, N.S.		
" 9	"	44132	A. C. Dempsey, Ed-monto.	3 "	60		A. C. Mc-Donald Co., Edmonton.	
" 9	"	44134	Edmonton Wine Spi-rit, Co., Edmonton.	3 "	90	Paul Taintier, France.		
" 13	"	44135	Hudson Bay Co., Calgary.	3 "	75	Annapolis Valley Cyder Co., Ltd., Bridge-town, N.S.		
DISTRICT OF NELSON—								
Feb. 13	Hardeider	48500	Hudsons Bay Co., Kamloops, B.C.	3 bots.	1.50	Bulmer & Co., Hereford, Eng.		
" 13	"	49611	Wilson Grocery Co., Kamloops, B.C.	3 "	75	Annapolis Valley Cyder Co., Ltd., Bridge-town, N.S.		
" 20	"	49622	Carlson & Nelson, Savona, B.C.	3 "	45	Cross & Co., Vancouver.		
DISTRICT OF VANCOUVER—								
Feb. 19	Hardeider	38309	London Grocery Co., Ltd., Vancouver, B.C.	3 bots.	75	T. P. Griffin & Co., Liverpool, Eng.		The pure juice of Devonshire apples.
DISTRICT OF VICTORIA—								
Feb. 27	Hardeider	49115	Windsor Grocery Co., Victoria, B.C.	3 bots.	75	T. P. Griffin & Co., London, Eng.		Devonshire cider.
" 29	"	49117	D. A. Ross & Co., Victoria, B.C.	3 "	75		Kelly Douglas Co., Ltd., Van-couver.	Ontario cider.
Mar. 6	"	49119	Harrison & McDon-ald, Victoria, B.C.	3 "	75		W. O. Wal-lace, Vic-toria.	Champagne cider.



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## HARD CIDER.

RESULTS OF ANALYSIS.												No. of Sample.	Remarks and Opinion of the Chief Analyst.
Sp. gr. of cider at 15°C.	Sp. gr. of Distillate.	Sp. gr. of Residue.	Alcohol by Volume.	Grammes per 100 g.									
				Total Acids.	Invert Sugar.	Glucose.	Total Sugar.	Ash.	Unfermented residue in distill.	Alkalinity of Ash as K <sub>2</sub> O (0.01).	Preservative.		
A. C. LARIVIERE, INSPECTOR.													
1.0223	0.9923	1.0200	4.26	7.30	4.84	N	4.84	0.25	1.19	0.30	None.	48418	Genuine.
R. W. FLETCHER, INSPECTOR.													
1.0246	0.9937	1.0313	4.49	7.42	4.47	None.	6.97	0.06	0.61	0.68	N	44131	Ash too low. Apple juice watered. Adulterated.
1.0278	0.9966	1.0312	2.47	7.72	6.45		6.45	0.42	0.86	0.11		44132	Genuine.
1.0178	0.9924	1.0256	5.47	6.21	4.00		4.00	0.22	1.45	0.12		44134	
1.0287	0.9905	1.0324	2.64	8.01	6.61		6.71	0.12	1.00	0.09		44135	Ash too low. Apple juice watered. Adulterated.
THOS. PARKER, INSPECTOR.													
1.0155	0.9925	1.0229	5.39	5.78	4.25	0.05	3.78	0.24	1.76	0.18	N	48500	Genuine.
1.0225	0.9963	1.0281	2.42	6.96	4.26	0.34	5.06	0.17	0.89	0.16		48511	Ash too low. Apple juice watered. Adulterated.
1.0266	0.9951	1.0412	3.49	8.01	4.28	N	6.28	0.21	1.52	0.15	Benzoic acid.	48522	Genuine.
J. F. POWER, INSPECTOR.													
1.0168	0.9940	1.0228	4.27	5.68	3.24	N	3.94	0.21	1.55	0.14	None.	48509	Genuine.
D. O'SULLIVAN, INSPECTOR.													
1.0145	0.9933	1.0212	4.78	5.22	4.00	None.	4.00	0.22	1.00	0.15	None.	49115	Genuine.
1.0158	0.9905	1.0253	6.94	6.45	4.84		4.84	0.20	1.41	0.13		49117	
1.0300	0.9918	1.0382	5.94	9.28	7.08		7.08	0.22	1.58	0.17	Benzoic acid.	49119	



APPENDIX D.

BULLETIN No 240—BAKING POWDERS.

OTTAWA, May 28, 1912.

WM. HIMSWORTH, Esq.,  
Assistant Deputy Minister,  
Inland Revenue Department,  
Ottawa.

SIR,— I beg to hand you a report upon 150 samples of baking powders, collected throughout Canada in October and November last.

Baking powders have been examined, in the large way, on four different occasions, since the Adulteration Act came into force, the last inspection being reported in Bulletin 174 (February, 1909).

This article warrants examination from two points of view ; first, its efficiency as a gas producer for baking purposes ; second, as regards the wholesomeness of the materials from which it is made, and the residues left in the finished bread.

So far as the present report is concerned, the baking powders found upon the Canadian markets may be arranged in four classes, on the basis of their essential acid components, as follows :—

	Samples.
Alum phosphate powders .....	68
Cream of tartar " .....	16
Acid phosphate " .....	31
Alum powders .....	5
Total .....	150

No complaint, upon the ground of wholesomeness, has been formulated against cream of tartar or acid phosphate powders, to my knowledge. The wholesomeness of such as contain alum, either as the sole acid component, or in combination with acid phosphate of lime, has frequently been questioned, and is, at present, an unsettled point. The matter is now in the hands of a Referee Board at Washington, D.C., composed of men whose qualifications and character are such as to command the respect of the scientific world. I am, for this reason, unwilling to open the question of alum as a material in baking powder ; preferring to await publication of the results obtained by the aforesaid Referee Board.

As regards the effectiveness of baking powders of the above classes, we have the following to record :—

68 alum phosphate powders, average	10·78	per cent gas.
46 cream of tartar " " "	11·01	" "
31 acid phosphate " " "	11·25	" "
5 alum powders average .....	12·40	" "

After much consideration of the matter, and conference with manufacturers, I am of opinion that it is reasonable to require all baking powders, as sold, to yield a minimum of ten (10) per cent available gas.



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These powders, as made, usually contain a slight excess of bi-carbonate of soda, so that the further addition of an acid gives a certain further amount of gas, called residual gas. This residual gas is not available in baking, except when sour milk, or other acid ingredient is added to the bread. For purposes of judging the value of a baking powder, the available gas should alone be considered.

From this point of view thirty-five (35) samples are below standard strength, twenty-three (23) of these being more than one per cent below the standard, and several of them being much more than one per cent below. Details are as follow:—

## Acid phosphate powders—

Less than one per cent below	6
More       "       "	11
	— 17

## Cream of tartar powders—

Less than one per cent below	6
More       "       "	7
	— 13

## Phosphate powders—

More than one per cent below	5
	— 5
Total.. . . . .	35

It is in the nature of a baking powder to deteriorate (in the sense of yielding gas by keeping), the rate of deterioration depending much upon the hygroscopicity of the materials, their initial dryness, the way in which it is packed, and the conditions under which it is stored. It is clear that so far as length of time in stock, and conditions of storage are concerned, the manufacturer of the powder is irresponsible; for this reason, the retail vendor must be held responsible for the strength (gas producing power) of the article he sells. He should secure himself at the quality of the goods he buys, for his own protection, and this is provided for in section 34 of the Act; for their condition as he sells them, he must hold himself responsible.

Since we have as yet, no legal minimum prescribed for the strength of baking powders, none of those now reported can be described as adulterated under the Act. A glance at the tables accompanying this report will show that baking powder of very varying strength is offered for sale, and will emphasize the necessity of fixing a minimum gas producing power for a legal baking powder.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,

*(Signed) Analyst*



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1911.							
Oct.	16	Baking Powder.	46711 F. L. Seldon & Son, 3 pkgs' 25			E. W. Gillett Co., To- Unknown...	
			Liverpool, N.S.			ronto.	
"	18	"	46712 H. C. Barnaby & Son, 3 " 45			Nat. Drug Co., Hali- Mfrs.....	
			Bridgewater, N.S.			fax, N.S.	
"	18	"	46713 H. E. Hall, Bridge- 3 " 30			E. W. Gillett Co, Jno. Tobin & Co.,	
			water, N.S.			Toronto. Halifax.	
"	25	"	46714 Nat. Drug & Chem.Co., ¾ lb .. 30			Vendors.....	
			Halifax, N.S.				
"	25	"	46715 J. Frank Crowe Co., 3 pkgs 12			E. W. Gillett Co., Mfrs.....	
			Ltd., Halifax.			Toronto.	
"	25	"	46716 Bauld Bros., Ltd., Hal- 3 " 10			W. M. D. Pearman, Mfr. ....	
			ifax, N.S.			Halifax.	
"	26	"	46717 W. M. D. Pearman, 3 " 10			Vendor .....	
			Halifax, N.S.				
"	26	"	46718 W. J. Fornstall & Co., 3 " 15			W. M. D. Pearman, Mfr....	
			Halifax, N.S.			Halifax.	
"	27	"	46719 Wentzell's Ltd., Hali- 3 " 25			White Swan Mills, Mfrs...	
			fax, N.S.			Toronto, Ont.	
"	27	"	46720 Woodill Mfg. Co., Hal- 3 " 10			Vendors. ....	
			ifax. N.S.				

DISTRICT OF PRINCE EDWARD ISLAND—

Oct.	16	Baking Powder.	46136 John McKenna, Char- ¾ lb .. 45			Johnson's PowderCo.,	
			lottetown, P.E.I.			New Jersey.	
"	16	"	46137 R. T. Maldigan & Co. 1½ lb.. 60			Johnson & Johnson,	
			Charlotte'wn, P.E.I.			Charlottet'n, P.E.I.	
"	17	"	46138 S. Sanderson & Co., 1½ " 45			E. W. Gillett Co.,	
			Charlotte'wn, P.E.I.			Ltd., Toronto, Ont.	
"	18	"	46139 M. Duffy, Charlotte- ¾ " .. 30			The St. John Coffee &	
			town, P.E.I.			SpiceMills, St. John,	
						N.B.	
"	18	"	46140 Stewart & Son. Char- ¾ " .. 30			Snowdon Forbes &	
			lottetown, P.E.I.			Co., Montreal.	
"	20	"	46141 Kier & McFadyen, ¾ " .. 45			Nat. Drug & Chem	
			Kensington, P.E.I.			Co., Halifax, N.S	
"	21	"	46142 Jas. Kennedy, Kensing- 1 lb .. 60			Mayell & Co., Toron-	
			ton, P.E.I			to, Ont.	
"	21	"	46143 McLellan & Co, Ltd., 1 " .. 50			Pepsind Baking Pow-	
			Summerside, P.E.I.			der Co., Montreal.	
"	21	"	46144 Brace McKay & Co., 1 " .. 50			Pure Gold Mfg.	
			Summerside, P.E.I.			Co., Ltd.	
"	26	"	46145 D. J. McLean, Mon- ¾ lb . 30			The Robt. Greigg Co.,	
			tague, P.E.I.			Ltd., Toronto.	

DISTRICT OF NEW BRUNSWICK

Oct.	12	B a k i n g Powder.	45570 Dearborn & Co., St. 3 pks. 30			Vendors. ....	
			John, N.B.				
"	14	"	44571 H. W. Cole, Ltd., St. 3 " 22			E. W. Gillett Co.,	
			John, N.B.			Ltd., Toronto.	
"	22	"	45572 E.W.Rowley, St. John, 3 " 30			Hamilton Coffee and	
			N.B.			Spice Co., Ltd.	



SESSIONAL PAPER No. 14  
BAKING POWDERS.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				Remarks and Opinion of the Chief Analyst.
	Carbon Dioxide.			Character of Powder.	
	Volume.	Weight.	Time.		

R. J. WAUGH, INSPECTOR.

	p.c.	p.c.	p.c.		
Magic Brand	10.74	1.66	12.20	Alum Phosphate..	46711
St. George Brand	9.79	1.36	11.00	Cream of Tartar..	46712 Below standard (slightly).
Magic Brand . . . . .	6.48	1.32	7.80	Alum Phosphate..	46713 Below standard.
Sample taken from .....	12.66	0.72	13.37	Cream of Tartar..	46714
Magic Brand. . . . .	7.13	1.46	8.36	Alum Phosphate..	46715 Below standard.
Woodhill Green Brand	10.15	2.82	12.97	Cream. of Tartar..	46716
	8.57	1.57	10.14		46717 Below standard.
	7.57	0.96	7.66		46718
White Swan Brand	11.19	1.76	12.95	Phosphate..	46719
New Process Brand	9.87	1.74	11.61	Cream of Tartar..	46720 Below standard (slightly).

WM. A. WEEKS, INSPECTOR.

	11.67	0.43	11.70	Cream of Tartar..	46721
	11.59	1.61	13.20		46722
	11.87	0.78	11.76	Phosphate....	46723
	9.76	1.21	11.00	Cream of Tartar..	46724 Below standard (slightly).
	5.12	1.79	6.87	Phosphate..	46725 Below standard.
	8.36	1.73	11.08	Cream of Tartar..	46141 Below standard.
	11.57	0.32	11.60	Alum Phosphate..	46142
Old Stock	4.86	1.74	6.60	Phosphate.....	46143 Below standard.
	6.46	0.65	9.52	Cream of Tartar..	46144 Below standard (slightly).
	7.16	0.94	8.10	Phosphate.....	46145 Below standard.

J. C. FERGUSON, INSPECTOR.

Perfect brand	13.61	0.65	13.74	Cream of Tarter	45570
.....	12.46	0.68	13.14	Phosphate.....	45571
Invincible 402, McLaren's purity, not guaranteed.	8.94	0.62	9.56	Cream of Tarter	45572 Below standard.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NEW BRUNSWICK

1911.							
Nov.	7	Baking Powder.	45573 The Yerna Grocery Co., Fredericton, N.B.	3 pkgs	40	Dearborn & Co., St John, N.B.	
"	8	"	45574 Wolverton & Gibson, Woodstock, N.B.	3 "	45	Todhunter, Mitchell & Co., Toronto.	
"	10	"	45575 F. D. Sadler, Perth, N.B.	3 "	48	Royal Baking Powder Co., New York.	
"	14	"	45576 J. A. Davidson, Sussex, N.B.	1 "	25	Nat. Drug & Chem. Co., Ltd., Canada.	
"	15	"	45577 J. A. Roy, Moncton, N.B.	3 "	30	E. W. Gillett Co., Ltd., Toronto.	
"	16	"	45578 George Stables, New castle, N.B.	3 "	45	Hamilton Coffee and Spice Co., Hamilton, Ont.	
"	17	"	45579 W. J. Kent & Co., Ltd., Bathurst, N.B.	3 "	30	E. W. Gillett & Co., Ltd., Toronto, Ont.	

DISTRICT OF QUEBEC

Oct.	12	Baking Powder.	37328 Gantin & frere, 271 Rue St. Joseph, Que.	3 pks.	30	Unknown.	Unknown.
"	13	"	37329 G. Gingras, 268 Rue du Roi, Que.	3 "	30	McLaren's, Hamilton Mfrs.	
"	16	"	37330 O. Lacroix, 19 Rue St. Joseph, Que.	3 "	30	E. R. Durkee.	J. B. Renaud & Cie.
"	16	"	37331 " " "	3 "	15	W. D. McLaren.	N. Turcot & Cie
"	16	"	37332 " " "	3 "	30	La National, 46 Rue St. Pierre, Que.	J. B. Renaud & frere
"	16	"	37333 " " "	3 "	20	Duffy & Co., Montreal	J. B. Renaud & Cie
"	16	"	37334 J. E. Gregoire, 128 Rue du Pont, Que.	3 "	30	E. W. Gillett Co., Mfrs., Ltd., Toronto.	
"	17	"	37335 W. Cantin, 133 Rue du Pont, Que.	3 "	21	Unknown.	Unknown.
"	17	"	37336 " " "	3 "	45	J. J. Duffy, Montreal	
"	19	"	37337 Elzear Gangon, 138 Rue D'Orchester, Que.	3 "	30	E. R. Durkee, Mont-real.	Bedard et frere, Que.

DISTRICT OF ST. HYACINTHE—

Oct.	25	Baking Powder.	1182 J. A. Menard, Farnham.	1 box.	10	The F. F. Dalley Co., Ltd., Hamilton.	
"	25	"	1183 J. E. Baillargeon, Farnham.	3 "	30	E. W. Gillett Co., Ltd., Toronto.	
"	26	"	1184 Levis Bergeron, Waterloo, P.Q.	1 "	15	Unknown.	
"	26	"	1185 Boright & Safford, Sutton, P.Q.	1 "	20	The Brodies Mfg. Co., Montreal.	
Nov.	6	"	1186 May & Houlahan, Sherbrooke, P.Q.	1 "	25	W. D. McLaren, Ltd., Montreal.	
"	8	"	1187 J. O. Moreau, Megantic.	1 "	25	Herron Leblanc, Ltd., Montreal.	



## SESSIONAL PAPER No. 14

## BAKING POWDERS.

Inspector's Report (not an expression of opinion).	RESULTS OF ANALYSIS				No. of Sample	Remarks and opinion of the Chief Analyst.
	Carbon Dioxide.			Character of Powder.		
	Available	Retained	Total.			
J. C. FERGUSON, INSPECTOR						
	p. c.	p. c.	p. c.			
	11.11	0.86	11.97	Cream of Tartar..	4575	
	11.38	0.16	11.54		4574	
	11.82	0.39	12.21		4575	
St. George's brand	8.45	1.11	9.56		4576	Below standard.
	12.39	0.40	12.79		4577	
McLaren's Invincible.	8.42	0.95	9.35	Cream of Tartar..	4578	Below standard.
	12.79	0.28	12.98		4579	

## F. X. W. E. BELAND, INSPECTOR

	13.20	0.00	13.20		37328	
	10.99	1.50	12.49	Alum Phosphate..	37329	
	13.50	0.20	13.70	Cream of Tartar & a little phosphate	37330	
	9.00	1.10	11.10		37331	Below standard slightly
	14.40	0.00	15.20	Alum	37332	
	10.80	0.30	11.10	Alum Phosphate..	37333	
	11.40	1.20	12.60	Phosphate .. . . .	37334	
	12.50	0.00	13.10	Cream of Tartar & a little phosphate	37335	
	10.70	1.20	11.90	Alum Phosphate..	37336	
	12.00	0.20	12.20	Cream of Tartar & a little phosphate	37337	

## J. C. ROULEAU, INSPECTOR.

Guaranteed pure by mfrs.	10.53	1.44	11.97	Alum Phosphate..	1182	
	11.80	0.33	12.13	Phosphate .. . . .	1183	
Box marked Fabrique pour Louis Bergeron	12.75	1.23	13.98		1184	
	13.14	0.59	13.73	Alum Phosphate..	1185	
Cook's Brand	10.33	1.07	11.40	Cream of Tartar.	1186	
Yeast	12.41	2.62	15.06	Alum Phosphate..	1187	



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ST. HYACINTHE—

1911.							
Nov.	9	Baking Powder.	1188 D. S. Bachand, Coati-cook.	1 box.	20	The Brodies, Mont-real.	
"	10	"	1189 C. H. Kathan, Rock Island, P.Q.	1 "	25	Royal Baking Powder, New Jersey.	
"	22	"	1191 R. Goulet, Sorel.	3 "	15		J. V. Boudrais, Montreal.
"	23	"	1192 E. Brunnette, St. Hyacinthe.	3 "	15	O. Lefebvre, Mont-real.	

DISTRICT OF MONTREAL—

Oct.	17	Baking Powder	40921 O. Sansregret, 500 Du-luth Ave. E., Mont-real.	3 tins.	15	Unknown.	
"	18	"	40922 G. W. Barsalo, 1067 St. James St., Montreal.	3 "	30	S. H. Ewing & Sons, Montreal.	
"	18	"	40923 J. O. Poupart, 340 Seigneurs St., Montreal.	3 "	45	Alredie Pure Food Co., Ltd., Montreal.	
"	18	"	40924 U. Bosquet, 892 Notre Dame West, Mont-real.	3 "	30	E. W. Gillett Co., Ltd., Toronto.	
"	18	"	40925 " "	3 "	15	Ocean Mills, Mont-real.	
"	18	"	40926 Archambault freres, 747 Notre Dame West, Montreal.	3 "	30	J. J. Duffy & Co., Montreal.	
"	19	"	40927 Harris & Co., 158 De Montigny E., Mont-real.	3 "	30	Canada Coffee and Spice Mills, Mont-real.	
"	19	"	40928 H. Lagace, 252 Amherst St., Montreal.	3 "	25	Windsor Mills, H. L. Co., Ltd., Montreal.	
"	19	"	40929 Thomas Dulude, 486 Lagauchetiere St., Montreal.	3 "	45	Bijou Mills, Montreal.	
"	19	"	40930 J. V. Boudrais, 223 Notre Dame East, Montreal.	3 "	25	Vendor	

DISTRICT OF OTTAWA—

Oct.	10	Baking Powder.	49031 Alexr. Sibbitt, Carleton Place.	3 tins.	30	Gorman, Eckert & Co., Ltd., London, Ont.	
"	12	"	49032 E. C. Armand, Arnprior.	3 "	45	"	
"	13	"	49033 Mundle & Percival, Kemptville.	3 "	75	Unknown.	Unknown
"	14	"	49034 F. W. Forde, Ottawa.	3 "	1 50	The Brodie Mfg. Co., Montreal.	
"	16	"	49035 Jas. E. Lindsay, Almonte.	3 "	30	The J. J. Fanning Co., Ottawa, Ont.	H. N. Bate & Sons, Ltd., Ottawa.
"	20	"	49036 J. T. Kearns, Chester-ville.	3 "	1 50	Mayell & Co., Toronto.	



SESSIONAL PAPER No. 14  
BAKING POWDERS.

Inspector's Report (Is not an expression of opinion.)	RESULTS OF ANALYSIS.					Remarks and Opinion of the Chief Analyst.
	Carbon Dioxide			Character of Powder.	Sample No.	
	Available.	Residual.	Total.			

J. C. ROULEAU, INSPECTOR—Continued.

	p.c.	p.c.	p.c.		
Red Rose	9.68	1.40	11.07	Alum Phosphate..	1188 Below standard (slightly).
Royal	12.47	0.47	12.94	Cream of Tartar	1189
White Rose.....	9.72	0.73	10.45	Alum Phosphate	1191 Below standard (slightly).
Ocean	6.72	0.79	7.51		1192 Below standard.

J. J. COSTIGAN, INSPECTOR.

Put up specially for home use	8.60	0.40	9.00	Alum Phosphate..	4001 Below standard.
Star Brand	12.10	0.40	12.50		4002
Alfred	9.30	1.60	10.90	Cream of Tartar and Alum Phosphate	4003 Below standard (slightly).
Maze	12.50	0.60	13.10	Phosphate.	4024
Ocean	9.60	2.80	12.40	Alum Phosphate..	4002 Below standard (slightly).
Cooks Favourite.....	10.30	0.80	11.10		4005
Mount Royal. ....	10.80	0.40	11.20		4007
New York	13.10	0.70	13.80		4028
Crown	7.60	1.00	8.60		4029 Below standard.
White Rose	11.30	0.10	11.40		4030

J. A. RICKEY, INSPECTOR

Forest City	10.50	0.30	10.80	Alum Phosphate	49031
Maple Leaf Mfg. for Vendor.	13.80	0.20	14.00		49032
.....	10.30	0.60	10.90	Alum and a little phosphate.	49033
Red Rose. Strong pure and wholesome.	12.90	2.60	15.50	Phosphate	49034
Fanning's Malt.	15.40	1.10	16.50	Alum .....	49035
Art. Guaranteed abso- lutely pure.	7.30	2.30	9.60	Alum Phosphate..	49036 Below Standard.



4 GEORGE V., A. 1914

BULLETIN No. 240--

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF OTTAWA—							
1911.							
Oct. 25	Baking Powder.	49037	A. E. Rea & Co., Ltd., Ottawa.	3 tins.	30	C. H. Cochrane, Ottawa.	
" 25	" ..	49038	I. Houle, Clarence st., Ottawa.	3 "	15	W. D. McLaren, C. Major, Ltd., Ottawa.	
" 25	" ..	49039	L. Malette, Murray st., Ottawa.	3 "	27	Litster Pure Food Co., Ltd., Toronto.	
" 25	" ..	49040	P. Lamoureux & Cie., Dalhousie st., Ottawa	3 "	45	Royal Baking Powder Co., New Jersey.	Provost & Allard, Ottawa.
DISTRICT OF KINGSTON—							
Nov. 1	B a k i n g Powder.	48584	Geo. Gibson, Kingston.	3 tins.	30	Gillett, Ltd., Toronto.	
" 1	" ..	48585	C. H. Pickering, Kingston.	3 "	30	" ..	
" 2	" ..	48586	M. Nolan, Kingston ..	3 "	45	Royal Baking Powder	
" 2	" ..	48587	J. Crawford, Kingston.	3 "	45	F. F. Dalley, Hamilton.	
" 2	" ..	48588	J. Lennon, Kingston..	3 "	45	Vendor .....	
" 2	" ..	48589	J. McCulla, Kingston.	3 "	45	Cleveland's Baking Powder.	
" 2	" ..	48590	M. Purtell, Kingston..	3 "	30	F. F. Dalley, Hamilton.	
" 2	" ..	48591	J. R. B. Gage, Kingston.	3 "	45	Gage Bros., Hamilton	
" 2	" ..	48592	W. Powers, Kingston.	3 "	39	Powers.....	
" 2	" ..	48593	J. Redden, Kingston ..	3 "	45	Royal Baking Powder	
DISTRICT OF TORONTO—							
Oct. 18	Baking Powder.	47395	D. J. Donovan, Walnut St., Hamilton.	3 pkg.	30	McLarens Ltd., Hamilton.	
" 18	" ..	47396	Norman & Co., 97 Main St. West, Hamilton.	3 "	15	Vendors .....	
" 20	" ..	47397	E. W. Gillett Co. Ltd., Toronto.	3 "	20	" ..	
" 20	" ..	47398	The White Swan Spice and Cereals, Ltd., Toronto.	3 "	20	" ..	
" 24	" ..	47399	H. G. Ainslie, Owen Sound.	3 "	30	" ..	Young-Windfield, Ltd., Hamilton.
" 26	" ..	47400	Wheeler Bros., Collingwood.	3 "	30	Litster Pure Food Co., Ltd., Toronto.	
" 27	" ..	49301	J. A. Brown, Collingwood.	3 "	30	" ..	
" 27	" ..	49302	Jas. Chalmers, Collingwood.	3 "	45	" ..	
" 27	" ..	49303	Chas. Cheesman, Barrie	3 "	45	White Swan Spice and Cereal Co., Ltd., Toronto.	
Nov. 2	" ..	49304	J. S. Kyle, Oshawa...	3 "	30	Fodhunter, Mitchell & Co., Ltd., Toronto	Mfrs .....



## SESSIONAL PAPER No. 14

## BAKING POWDERS.

RESULTS OF ANALYSIS.						
Inspector's Report. (Is not an expression of opinion).	Carbon Dioxide.			Character of Powder.	No. of Sample.	Remarks and opinion of the Chief Analyst.
	Available	Residual.	Total.			

## J. A. RICKEY, INSPECTOR—Continued.

	p. c.	p. c.	p. c.		
Our Own. Mfg. for Ven- dors.	13.40	0.90	14.00	Alum Phosphate..	49037
Cook's Friend.	10.80	0.50	11.30	Cream of Tartar & a little phosphate	49038
Thistle. Mfg. for Ven- dor.	14.90	1.60	16.10	Alum Phosphate..	49039
Royal. Absolutely pure.	12.40	0.20	12.60	Cream of Tartar..	49040

## JAS. HOGAN, INSPECTOR.

	12.20	2.50	14.70	Phosphate.....	48584
	13.00	0.40	13.40		48585
	11.40	0.30	11.40	Cream of Tartar	48586
	11.40	0.60	11.70	Alum with a little phosphate.	48587
	12.70	0.40	13.10	Alum Phosphate	48588
	10.30	0.60	10.90	Cream of Tartar	48589
	10.80	0.20	11.00	Alum with a little phosphate.	48590
	12.20	0.60	12.80	Alum Phosphate..	48591
	11.20	0.40	11.60	Phosphate & trace of Alum.	48592
	11.20	0.40	11.60	Cream of Tartar..	48593

## H. J. DAGER, INSPECTOR.

'Ocean Wave'.....	11.90	1.50	13.40	Alum Phosphate	47395	
'Red Ribbon' .. .. .	12.80	2.30	15.10		47396	
'Magic.' Contains no alum.	11.70	0.20	11.90	Phosphate.	47397	
White Swan. Contains no alum. Guaranteed absolutely pure.	12.20	1.80	14.00		47398	
'Mother's Choice'. ....	10.50	1.10	11.60	Phosphate and trace of alum.	47399	
'Wheeler Bros.' Put up for vendors by mfrs.	9.70	0.80	10.50	Alum. Phosphate	47400	Below standard (slightly).
'Pure Food'.....	11.80	0.30	12.10		49301	
'Maple Leaf.' Put up expressly for vendors.	11.80	1.76	13.56		49302	
Ocean Foam. Perfectly pure. Put up for ven- dor by mfrs.	11.00	0.70	11.70		49303	
White Lily. Quality guaranteed.	10.42	0.87	11.29	Phosphate	49304	



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF WINDSOR—

1911.							
Oct.	16	Baking Powder.	47805 Chute & Smith, St. Thomas.	3 pkg.	30	E. W. Gillet Co., Toronto	
"	16	"	47807 Moylan & Moylan, St. Thomas.	3 "	30	Gorman, Eckert & Co., London.	
"	16	"	47810 E. J. Witheford, St. Thomas.	3 "	30	I. X. L. Spice and Coffee Co., London.	
"	16	"	47811 C. J. Norsworthy, St. Thomas.	3 "	30		E. Adams & Co., London.
"	17	"	47815 J. Caron, Ridgetown.	3	30	E. W. Gillett Co., Ltd., Toronto.	
"	18	"	47828 I. Vandour & Son, Leamington.	3 "	30	Hamilton Spice and Coffee Co., Hamilton.	
"	18	"	47831 G. M. Sawyer, Leamington.	3 "	30	E. W. Gillett Co., Ltd., Toronto.	
"	18	"	47835 Robinson Bros., Leamington.	3 "	30	Todhunter & Mitchell, Toronto.	
"	19	"	47845 A. H. Scarff, Essex.	3 "	30	Hamilton Spice and Coffee Co.	
"	19	"	47849 Millar & Wigle, Essex.	3 "	10	Egg-O Baking Co., Hamilton.	

DISTRICT OF MANITOBA—

Oct.	23	Baking Powder.	47428 Blue Ribbon Ltd., Winnipeg.	24 oz.	25	Vendors	
"	23	"	47429 Campbell Bros. & Wilson, Winnipeg.	1 lb.	Nil.	"	
"	23	"	47430 The Gold Standard Mfg. Co., Winnipeg.	1/2 "	"	"	
"	24	"	47431 The White Star Mfg. Co., Winnipeg.	1/2 "	"	"	
"	24	"	47432 The Dyson Co., Winnipeg.	1/2 "	"	"	
"	25	"	47433 Mikush & Burbaumer, Winnipeg.	1/2 "	10	The White Star Mfg. Co., Winnipeg.	Unknown.
"	25	"	47434 Moffett & Douglas, Winnipeg.	1/2 "	25	The Price Baking Co., Chicago.	
"	25	"	47435 Western Mercantile Co., Ltd., Winnipeg.	1/2 "	10	The Gold Standard Mfg. Co., Winnipeg	
"	25	"	47436 A. J. Kemball, Winnipeg.	1/2 "	15	"	"
"	26	"	47437 H. Logrenia, Winnipeg	1/2 "	20	The Blackwood Ltd , Winnipeg.	"

DISTRICT OF CALGARY—

Nov.	9	Baking Powder.	44052 Hewitt & Armstrong, Medicine Hat.	3 tins.	75	Price Baking Powder Co., Chicago.	
"	9	"	44053 A. W. Curran, Winnipeg.	3 "	45	W. A. Jamieson, Coffee Co., Victoria, B C.	
"	15	"	44054 L. T. Mewburn & Co., Ltd., Calgary.	3 "	25	E. W. Gillett Co., Ltd., Toronto.	



## SESSIONAL PAPER No. 14

## BAKING POWDERS.

Inspector's Report (Is not an expression of opinion.)	RESULTS OF ANALYSIS.			No. of Sample	Remarks and Opinion of the Chief Analyst.
	Carbon Dioxide.				
	Available.	Residual.	Total.		
			Character of Powder		

## JNO. TALBOT, INSPECTOR.

	p.c.	p.c.	p.c.		
Magn	11.19	0.56	11.75	Phosphate.....	47806
	8.19	0.83	9.02	Alum. Phosphate	47807 Below standard.
	12.96	0.41	13.37		47810
Fan.	12.66	1.17	13.81		47811
	12.78	0.14	12.92	Phosphate.....	47815
Ocean Wave.....	10.94	2.05	12.99	Alum Phosphate..	47825
	13.70	0.26	13.96	Phosphate	47831
Todhunter Excelsior...	11.23	0.65	11.28	Cream of Tartar	47835
Ocean Wave	10.58	3.13	13.51	Alum. Phosphate	47845
	11.74	1.96	13.70		47849

## A. C. LARIVIERE, INSPECTOR.

Blue Ribbon.....	11.47	1.20	12.67	Alum Phosphate.	47428
Royal Shield...	11.47	1.80	13.27		47429
Gold Standard.....	12.65	0.65	13.30		47430
White Star.....	9.50	2.90	12.20	"	47431 Below standard
Red Cross.....	11.20	2.87	14.07		47432
White Star	10.19	1.11	11.50		47435
Dr. Price's Cream	12.37	0.65	13.02	Cream of Tartar ..	47434
Gold Standard	10.44	1.07	12.31	Alum Phosphate.	47435
"	10.36	1.29	11.65		47436
Blackwood	11.88	1.37	13.25		47437

## R. W. FLETCHER, INSPECTOR.

	12.40	0.40	12.80	Cream of Tartar & a little phosphate	44052
	12.20	1.40	13.60	Alum Phosphate..	44053
	13.10		13.10	Phosphate	44054



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF CALGARY—

1911.							
Nov. 15	Baking Powder.	44055	G. F. & J. Galt, Winnipeg.	2 tins.	25	Blue Ribbon Mfg. Co. Ltd. Winnipeg.	
" 15	"	44056	Campbell Wilson & Horne, Calgary.	3 "	25	E. W. Gillett Co., Ltd., Toronto.	
" 15	"	44057	Georgeson & Co., Ltd., Calgary.	3 "	25	Vendors.....	
" 16	"	44058	J. A. Nolan, Calgary.	3 "	75	Wm. Pryce's, Chicago U.S.	
" 16	"	44059	Calgary Milling Co. Ltd., Calgary.	3 "	75	H. Stelling & Co., San Francisco, U.S.	
" 16	"	44060	Hudson's Bay Co., Calgary.	3 "	75	The Georgeson Co., Ltd., Calgary.	
" 16	"	44061	S. G. Freeze, Calgary.	3 "	75	"	

DISTRICT OF NELSON—

Oct. 19	Baking Powder.	48429	Crow's Nest Trading Co., Fernie, B.C.	3 tins.	45	E. W. Gillett Co., Toronto.	
" 19	"	48431	Trites Wood Co., Fernie, B.C.	3 "	30	White Star Mfg. Co., Winnipeg.	
" 19	"	48432	" " "	3 "	75	Price Baking Powder Co., Chicago.	
" 19	"	48441	Fernie Co-op. Assocn., Fernie, B.C.	3 "	1 35	E. W. Gillett Co., Toronto.	
" 19	"	48442	" " "	3 "	45	Georgeson & Co., Calgary.	
" 27	"	48455	Union Co op. Assocn., Rossland, B.C.	3 "	1 50	Mayell & Co., Toronto	
" 27	"	48456	" " "	3 "	75	Crescent Mfg. Co., Seattle.	
" 27	"	48465	Hunter Bros., Rossland, B.C.	3 "	60	Coldyke B. P. Co., Winnipeg.	
" 27	"	48466	" " "	3 "	60	Price B. P. Co., Chicago.	
" 28	"	48482	A. S. Horswill, Nelson, B.C.	3 "	30	Coldyke B. P. Co., Winnipeg.	

DISTRICT OF VANCOUVER—

Oct. 20	Baking Powder.	38225	Gruchy & Carlow, 2049 Granville st., Vancouver.	16 oz..	25	Eggo Baking P. Co., Regina, Sask.	
" 20	"	38226	London Grocery Co., Fairview Branch, Vancouver.	3 tins.	75	Dr. Price Co., Chicago	
" 20	"	38227	White-Thompson Co., Granville st., Vancouver.	12 oz..	20	Gillett & Co., Toronto	
" 20	"	38228	A. C. Bartig, Granville st., Vancouver.	12 "	20	Pure Gold Co., Toronto.	
" 20	"	38229	A. McFarlane, Granville st., Vancouver.	12 "	25	Coldyke Co., Winnipeg.	



## SESSIONAL PAPER No. 14

## BAKING POWDERS.

## RESULTS OF ANALYSIS.

Inspector's Report. (Is not an expression of opinion.)	Carbon Dioxide.			Character of Powder	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Available	Residual	Total			

R. W. FLETCHER, INSPECTOR—*Continued.*

	grs.	p.c.	p.c.		
	11.30	0.20	11.50	Alum Phosphate..	44054
	12.60	0.20	12.80	Phosphate....	44056
	12.70	0.80	13.50	Alum Phosphate..	44057
	12.30	0.60	12.90	Cream of Tartar & a little phosphate	44058
	12.30	1.10	13.40	Cream of Tartar..	44059
	13.60	0.20	13.80	Alum Phosphate..	44060
.....	14.00	0.60	14.60		44061

THOS. PARKER, INSPECTOR

12.20	0.40	12.60	Phosphate..	48429	
10.50	1.15	11.65	Alum Phosphate..	48431	
12.00	0.20	12.20	Cream of Tartar & a little phosphate	48432	
12.20	0.60	12.80	Cream of Tartar..	48433	
9.60	0.50	10.10	Alum Phosphate..	48434	Below standard (slightly)
10.75	1.20	11.95		48435	
8.10	0.90	9.00	Phosphate and little alum.	48436	Below standard
10.60	0.80	11.40	Alum Phosphate..	48437	
13.00	0.50	13.50	Cream of Tartar & a little phosphate	48438	
11.50	0.30	11.80	Alum Phosphate..	48482	

J. F. POWER, INSPECTOR.

Guaranteed by Mfrs.	10.64	2.04	12.68	Alum Phosphate..	38225
Made from pure grape cream of tartar, tartaric acid, bicarbonate soda and corn starch.	12.20	0.52	12.72	Cream of Tartar..	38226
Magic, phosphate, bicar- bonate soda and starch.	12.57	0.41	12.78	Phosphate.....	38227
Fully warranted in every respect.	10.44	0.06	10.50	Cream of Tartar..	38228
	10.75	1.60	12.35	Alum Phosphate...	38229



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VANCOUVER—

1911.							
Oct. 20	Baking Powder.	38230	Jackson's Grocery, Cedar Cottage, Vancouver.	12 oz..	40	Royal Baking Powder, New York.	.....
" 20	"	38231	D. A. Finan, Park Drive, Vancouver.	12 "	20	Empress Mfg. Co., Vancouver.	.....
" 20	"	38232	T. A. Brewis, Park Drive, Vancouver.	12 "	25	Blue Ribbon Co., Winnipeg.	.....
" 20	"	38233	Main's Grocery, Park Drive, Vancouver.	12 "	25	Unknown. ....	.....
" 20	"	38234	Swindell & Banbury, Vancouver.	12 "	25	White Star Mfg. Co., Winnipeg.	.....

DISTRICT OF VICTORIA—

Oct. 25	Baking Powder.	47661	Windsor Grocery Co., Victoria, B.C.	3 pks.	75	The Pioneer Coffee & Spice Mills, Victoria, B.C.	.....
" 25	"	47662	" " " "	3 "	75	" " " "	.....
" 26	"	47663	The West End Grocery Co., Ltd., Victoria, B.C.	3 "	75	Nat. Drug and Chem. Co., Montreal.	.....
" 26	"	47664	" " " "	3 "	75	Royal B. P. Co., New Jersey.	.....
Nov. 9	"	47665	Copas & Young, Victoria, B.C.	3 "	60	Price B. P. Co., Chicago.	.....
" 9	"	47666	Wm. B. Hall, Victoria, B.C.	3 "	75	A. Shilling & Co., San Francisco, Cal.	.....
" 13	"	47667	Erskine & Co., Victoria, B.C.	3 "	75	W. A. Jamieson Coffee Co.	.....
" 13	"	47668	F. E. Plummer, Victoria, B.C.	3 "	60	Blue Ribbou, Ltd., Winnipeg.	.....
" 15	"	47669	D. H. Ross & Co., Victoria, B.C.	3 "	75	Crescent Mfg. Co., Seattle, Wash.	.....
" 15	"	47670	Harrison & McDonald, Victoria, B.C.	3 "	75	E. W. Gillett Co., Ltd., Toronto.	.....



SESSIONAL PAPER No. 14

BAKING POWDERS.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.				No. of Sample	Remarks and opinion of the Chief Analyst.
	Carbon Dioxide.			Character of Powder.		
	Available	Residual.	Total.			

J. F. POWER, INSPECTOR—Continued.

	p. c.	p. c.	p. c.			
Cream of tartar, tartaric acid, bicarbonate of soda and starch.	11.89	0.61	12.41	Cream of Tartar.	38230	
	12.35	1.46	13.81	Alum Phosphate.	38231	
Always reliable. ....	7.04	1.50	8.54		38232	Below standard.
Put up for Mann's grocery.	7.34	1.71	9.05		38233	
Best in the world. ....	7.27	0.98	8.25		38234	

D. OSULLIVAN, INSPECTOR

Hygiene	11.19	3.36	14.55	Alum Phosphate..	47661	
Pioneer, pure cream of tartar baking powder.	11.42	2.14	13.56	Cream of Tartar, with cream of tartar and phosphates.	47662	
St. George... ..	8.76	1.30	10.06	Cream of Tartar	47663	Below standard.
Royal.....	11.94	0.60	12.63		47664	
Dr. Price's cream. ....	12.30	0.60	12.90	Cream of Tartar & a little phosphate	47665	
Shilling's best	11.70	1.40	13.10	Cream of Tartar..	47666	
Feather light.....	12.63	0.85	13.48	Alum Phosphate..	47667	
Blue Ribbon	7.17	0.98	8.15		47668	Below standard.
Crescent .....	5.87	0.12	5.99	Phosphate with little alum.	47669	
Magie	12.87	0.60	13.47	Phosphate	47670	



APPENDIX E.

BULLETIN No. 241—REGISTERED STOCK FEEDS.

OTTAWA, August 23, 1912.

WM. HIMSWORTH, Esq.,  
Acting Deputy Minister,  
Inland Revenue.

SIR,—I beg to hand you a report upon 138 samples purchased as Registered Feeding Stuffs, throughout Canada, in February of this year. There seems to be much and wide-spread misunderstanding of the requirements of the Commercial Feeding Stuffs Act of 1909. It is difficult to comprehend this state of things, which is illustrated as notably by the mistakes made by our food inspectors as in any other way.

Briefly, the requirements of the Act in question are as follows: Feeds for farm stock are either subject to legal inspection, or are permitted to be sold without inspection.

Hay, Straw, Roots, Wet brewers grains; also Oats, Barley, Corn, &c., in the unground state, are not subject to any official inspection. The reason is clear.

These articles are, from their nature, as readily judged in regard to quality, by the ordinary purchaser as they could be by a Government Official.

All other feeds are subject to inspection for the equally intelligible reason, that their value is not readily, or certainly appreciable to the purchaser.

Indeed, the only way in which the superiority of one article of Bran or Chop feed over another article of like species can be found out, without chemical analysis, is by actually feeding the material and observing results.

Feeds which are subject to inspection are again divided into two classes, viz.: those which may be sold without registration and those which must be registered before being legally offered for sale.

Bran, Shorts (Middlings) and Chop feeds, are not required to bear any registration number, or any guaranty of their nutritive value. This is because the terms Bran, Shorts and Chop feeds, are legally defined under section 26 of the Adulteration Act.

The definitions of these feeds are published under Grain Standards, as Regulation G. 968.

The feeds in question are required to possess the subjoined percentage values.

	Proteids.	Fat.	Fibre.
	(Min.)	(Min.)	(Max.)
Bran.....	14	3	10
Shorts (Middlings).....	15	4	8
Chop Feed .....	10	2	10

The purchaser of any one of these feeds is assured of obtaining a nutritive value at least equal to the values above given.



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There is however nothing in the Act which prevents a manufacturer of Bran, Shorts or Chop, from registering his product, and from guaranteeing a higher value for it than the minimum value required by the Act. Should a manufacturer of Bran, &c., elect to register and to guarantee higher value than the minimum which the Act requires for such class of feed, it is incumbent upon such manufacturer to live up to the guarantee set by himself.

If for example, he chooses to warrant his Bran as containing 16 per cent proteids, and 5 per cent fat, but puts on the market an article containing only 14 per cent proteids and 3 per cent fat, such article will be adulterated, under the Act, although it meets the minimum requirements for legal Bran. Section 15 of the Act provides a penalty for failure to meet the guaranteed values.

All feeds other than those described above, must be registered before being offered for sale.

The registration number must be affixed to every package offered for sale, and constitutes identification of the brand. (Section 7). A penalty of not more than fifty dollars for a first offence is provided for violation of this condition. (Section 15.)

Every registration number corresponds to a definite brand of feed, whose minimum value in nutrient matter is guaranteed by the manufacturer and is on file in this Department.

The guaranteed value must also appear on every package offered for sale. (Section 7, Schedule A.)

The purchaser knows what value he is getting when he buys a registered feed.

It is the duty of this department to inspect all feeds on the market, excepting such as are specifically exempt from inspection. (Section 12.)

Instructions were issued to our inspectors to collect registered feeds only. The response shows as follows:

Cattle medicines obtained .. . . .	41	samples.
Feeds not registered, and not required to be registered .. . . .	9	"
Feeds not registered, but should be registered .. . . .	1	"
Registered feeds.. . . .	87	"
Total.. . . .	138	"

There is some excuse for the collection of so many samples of cattle medicines, inasmuch as the term feeding stuff is defined in Section 2 of the Act to include "feeds claimed to possess medicinal as well as nutritive properties." These samples will form the subject of a separate report.

The present report therefore deals with 97 samples only and these may be classified as follows:

(1) Registered feeding stuffs	
Meeting guarantee .. . . .	64
Below guarantee.. . . .	22
Doubtful (imperfect report) .. . . .	1
Total .. . . .	87
(2) Unregistered—illegal.. . . .	1
"            and legal	
Meeting standard requirements .. . . .	5
Below standard requirements .. . . .	4
Total .. . . .	97



The following table gives a synopsis of 22 registered feeds which fail to meet the guarantee under which they are sold.

No.		Below requirements in.			Remarks.
		Proteids	Fat.	Fibre.	
45631	Bran.....	1 99	1 09	.....	
45636	Middlings.....	2 08	0 83	.....	
45642	Calf meal.....	9 20	.....	.....	Above guarantee in fat 6 3.
39070	Kamoat .....	2 16	0 44	.....	
39073	Ox Meal.....	1 70	.....	.....	
39078	Eureka .....	0 71	1 61	.....	
40841	Bran.....	2 02	0 74	.....	
40843	Kamoat.....	1 69	0 42	.....	
40846	Kremo Feed.....	2 02	0 54	.....	
40848	Ox Meal .....	1 58	.....	.....	
50173	Crescent .....	1 08	1 36	.....	
50174	Sugar and Flaxseed.....	2 58	.....	.....	
50179	Oil cake.....	4 08	.....	.....	
50184	Calf meal.....	7 73	.....	.....	Above in fat 5 46.
50185	Bibby's Cream Equivalent.....	.....	2 31	.....	Above in proteids 2 32.
50188	Oil cake.....	.....	1 23	.....	Excess in proteids 0 95.
49552	Schumacher.....	.....	1 65	.....	Excess in Proteids.
49373	Maize meal .....	2 20	0 54	.....	
49381	Gluten Feed.....	1 96	.....	.....	Excess in fat 1 24.
49386	Dairy Feed.....	3 53	1 15	5 6	Excess Fibre.
49640	Poultry bone.....	.....	3 36	.....	
38316	Stock feed.....	4 22	1 62	.....	

Section 15 of the Act provides that a deficiency of one per cent of the proteids or fat shall not be considered evidence of fraudulent intent, if the total value of the feed, in nutritive material, is substantially equivalent to the guaranteed statement of the manufacturer.

All of the above cases show deficiencies greater than one per cent, in proteids or in fat, so that under the terms of the Act they are adulterated.

In most instances, however, the departure from legal allowance is small, and in some cases is nearly, if not quite balanced by excess of one or other component.

In cases where the manufacturer bases his guarantee values on the analysis furnished to him by the analyst he employs, it is important that he assure himself of the typical character of the sample which he submits for analysis.

If he submit several samples, instead of a single one the average result of analysis will be more likely truly to represent his product than if he trusts to a single test.

I am convinced that some of the differences above recorded between the guaranteed and the actual analysis are unfavourable to the manufacturer owing to his having described his product upon the result of a single test case, the sample submitted being, perhaps, rather better than his average output.

In view of this consideration and of the fact that this is a first inspection of registered feeds under the Act of 1909, I am inclined to recommend leniency in the enforcement of the penalties provided under Section 15.

Ten samples herein reported are not registered. One of these, No. 48075, sold as Cotton Seed Meal, can not be legally sold without being registered. From correspondence with the Rev. D. B. Cohoe of Burgessville, (Departmental Letters 87715 and 87745) it is explained that this was a sample of a personal consignment passed over to a neighbour, without profit; and cannot properly be regarded as a sale.

Of the other samples, five meet the requirements under which they are sold as Middlings or Chop feed. The following samples fail to meet legal requirements.



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No. 45639—Sold as *Feed Flour*.

Below Standard for "Middlings"—

Proteids .. . . .	1.35 p.c.
Fat .. . . .	1.44 p.c.
Above Standard in Fibre .. . . .	6.70 p.c.

It is uncertain whether the term "Feed Flour" may be taken as equivalent to middlings. It would be safer to register or guarantee articles of this kind. The actual feeding value is so nearly equal to that of middlings, that the article may pass inspection, as doubtfully classified.

No. 50183—Sold as Rex Sugar Feed,

Below Standard for chop feed—

Proteids .. . . .	0.68 p.c.
Fat .. . . .	1.06 p.c.
Above Standard in Fibre.. . . .	5.3 p.c.

It is probable that this article should be registered. It is so nearly the value of Chop feed that it may pass.

No. 49367. Sold as Oat Feed.

Below Standard as Chop Feed—

Proteids.. . . .	6.76 p.c.
Fat .. . . .	0.87 p.c.
Excess Fibre .. . . .	18.60 p.c.

This article has so little nutritive value that it must be declared adulterated.

No. 49629. Sold as Stock Feed, is below requirements for Chop Feed as follows:—

Proteids .. . . .	7.23 p.c.
Fat .. . . .	1.62 p.c.
Excess Fibre .. . . .	25.20 p.c.

This article is to be judged adulterated.

I beg to recommend publication of this report as Bulletin No. 241.

I am, Sir, very respectfully,

Your obedient servant,

A. MCGILL,  
Chief Analyst.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer	Furnisher.

DISTRICT OF NOVA SCOTIA--

1912.							
Feb.	9 Stock Feed....	47051	Wentzells Ltd., Halifax, N.S.	1 pkg.	50	International Stock Food Co., Toronto.	Manufacturers
"	21	47052	Halifax Seed Co.....	1 "	50	Pratt Food Co., Toronto.	
"	21	47053	" "	1 "	50	W. A. Jenkins Co., London, Ont.	

DISTRICT OF PRINCE EDWARD ISLAND--

Feb.	7 Calf Meal	46186	Auld Bros., Charlottetown, P.E.I.	3 lbs.	20	The Blatchford Calf Meal Factory, Wankegan Ill.	
"	7 Molassine	46187	" "	3 "	10	The Molassine Co., Ltd., England.	
"	21 Herbageum...	46188	Mathew & McLean, Ltd., Charlottetown, P.E.I.	4 "	50	The Beaver Mfg. Co., Galt, Ont.	

DISTRICT OF NEW BRUNSWICK

Feb.	17 Bran.	45631	C. H. Peters & Sons, Ltd., St. John, N.B.	3 lbs.	15	Western Canada Flour Mills, Winnipeg	
"	17 Middlings	45632	" "	3 "	15	"	
"	19	45633	P. Nase & Son, St. John, N.B.	3 "	10	Maple Leaf Milling Co., Canada.	
"	19 Banner.	45634	" "	3 "	10	Quaker Oats Co., Peterboro', Ont.	
"	19 Feed Flour..	45635	" "	3 "	10	Western Canada Flour Mills Co., Winnipeg.	
"	21 Middlings ....	45636	James Collins, St. John, N.B.	3 "	10	"	
"	21 Feed Flour...	45637	W. J. Alexander, St. John, N.B.	3 "	10	Maple Leaf Milling Co., Canada.	
"	21 Geneva Feed..	45638	James Stephenson & Son, St. John, N.B.	3 "	15	Western Canada Flour Mills Co., Winnipeg.	



## SESSIONAL PAPER No. 14

## REGISTERED STOCK FEEDS.

Inspector's Report (Is not an expression of opinion.)	Analysis of Sample.	Registered Analysis			No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Protein.	Fat.	Fibre.		

R. J. WAUGH, INSPECTOR.

					1700	Is a medicine, not a food.
		Mineral matter 22.2 p.c.			1700	Mineral matter 22.2 p.c. Is not a stock feed. Is a medicine.
		Mineral matter 11.0 p.c.			1700	Is a medicine, not a food.

WM. A. WEEKS, INSPECTOR.

	As guaranteed As found.	15.00 14.80	7.00 6.80	1.00 1.00	4538	Meets guarantee.
	As guaranteed As found.	7.00 6.15	10.00 9.10	7.00 6.10	4538	
		Mineral matter 11.0 p.c.			4538	Is a medicine, not a food.

J. C. FERGUSON, INSPECTOR.

Reg. No. 66...	As guaranteed As found.	15.00 14.80	7.00 6.80	10.00 9.70	4538	1. Meets guarantee, as per guarantee, as per guarantee. Con- tains 1.00 p.c. of water.
61	As guaranteed As found.	15.00 17.80	7.00 6.80	7.51 6.80	4538	1. Meets guarantee, as per guarantee, as per guarantee. Con- tains 1.00 p.c. of water.
Reg. No. 66 Reg. Number	As found.	15.70	6.80	7.70	4538	1. Meets guarantee, as per guarantee, as per guarantee. Con- tains 1.00 p.c. of water.
Reg. No. 16	As guaranteed As found.	15.00 14.80	7.00 6.80	9.00 8.50	4538	1. Meets guarantee, as per guarantee, as per guarantee. Con- tains 1.00 p.c. of water.
61	As guaranteed As found.	15.23 17.37	7.00 6.80	7.51 6.80	4538	1. Meets guarantee, as per guarantee, as per guarantee. Con- tains 1.00 p.c. of water.
61	As guaranteed As found.	15.82 14.74	7.00 6.80	10.86 10.00	4538	2.08. Meets guarantee, as per guarantee, as per guarantee. Con- tains 1.00 p.c. of water.
"Maple Leaf" Reg. Number	As found.	15.45	6.80	5.50	4538	Not registered.
Reg. No. 64.....	As guaranteed As found.	15.20 15.20	6.04 6.48	7.51 6.20	4538	Meets guarantee.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NEW BRUNSWICK—

1912.							
Feb. 27	Feed Flour. . .	45639	P. F. McKenna, St. Stephen, N. B.	3 pkgs	15	Canada Cereal M. Co., Toronto.	
Mar. 5	Geneva Feed..	45640	M. E. Doohan, Fredericton, N. B.	3 lbs.	10	Campbell Flour M. Co., W., Toronto	
" 5	Model Feed . .	45641	A. H. Vanwart, Fredericton, N. B.	3 "	13	Lake of the Woods M. Co. Montreal	
" 7	Calf meal. ....	45642	J. W. Niles, Andover, N. B.	3 "	25	International Stock Food Co., Ltd., Toronto.	
" 8	Puritan Chop.	45643	J. W. McPhail, Perth, N. B.	3 "	10	Ogilvie Flour M. Ltd., Montreal.	
" 12	Hereules. ....	45644	W. B. McKay, Ltd., Sussex, N. B.	3 "	10	"	

DISTRICT OF QUEBEC—

Feb. 7	Stock Feed. . .	37388	Arthur Drolet, 714 Rue St. Valier, Quebec.	3 lbs.	75	International Stock Food Co. Toronto	P. T. Legare, Quebec.
" 9	"	37389	Hamel & Bedard, 728 Rue St. Valier, Quebec.	3 "	75	"	"
" 14	"	37390	Jos. Masson, 808 Rue St. Valier, Quebec.	3 "	30	Davis & Lawrence, Mfrs. Montreal.	
" 14	"	37391	" " " "	3 "	50	Nyals, New York.	"
" 14	"	37392	" " " "	3 "	45	L. E. Martel, Quebec.	Mfr .. ..
" 14	"	37393	" " " "	3 "	75	Toronto Pharmacal	Mfrs. ....
" 14	"	37394	" " " "	3 "	35	Dr. Ed. Morin....	Mfr....
" 14	"	37395	Hamel & Bedard, 728 Rue St. Valier, Quebec.	3 "	105	Jos. Julien, Pont Rouge.	W. Brunet & Cie, Quebec.
" 14	"	37396	P. Reneaud, 597 Rue St. Valier, Que.	3 "	105	Pratt Food.....	A. E. Vallerand, Quebec.

DISTRICT OF ST. HYACINTHE—

Feb. 19	Quinquinol....	39057	Berthiaume & Lanoue, Farnham.	1 can.	50	Am. Pure Food Co. Montreal.	
" 19	International..	39058	J. E. Baillargeon, Farnham.	3 pkgs	25	International Stock Food Co. Toronto	
" 21	Pratts... ..	39059	Vaughan Bros., Magog...	1 "	50	Pratts Food Co., of Canada, Ltd., Toronto.	
" 21	Anglo-Saxon..	39060	B. E. Goyette, Magog...	1 "	25	Nat. Drug & Chem. Co., Montreal.	
" 27	Interprovincial	39061	T. Ledoux, St. Guillaume	1 "	25	The Interprovincial S. F. Co., St. Basile.	
" 27	Vinks....	39062	E. Sylvestre, St. Guillaume	1 "	25	The Joliette Chem. Co. Ltd., Joliette	



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## REGISTERED STOCK FEEDS.

Inspector's Report (Is not an expression of opinion).	Analysis of Sample.	Results of Analyses			Remarks and Opinion of the Chief Analyst.
		Protein	Fat.	Fibre.	
<i>Continued.</i>					
No. Reg. number.	As found.	p.c.	p.c.	p.c.	4563 No registered guarantee. Below standard for middlings.
	As found.	9.35	4.36	8.00	4564 Contains no requirements for Chop Feed.
Reg. No. 49	As guaranteed.	11.6	3.6	11.5	4564 Meets guarantee, and conforms to requirements for chop feed.
" 106	As found.	10.41	3.16	9.6	
	As guaranteed.	25.0	4.0	10.0	4564 9.20 per cent deficiency in proteins; 6.3 above guarantee in fat.
" 107	As found.	15.8	10.3	8.0	
	As guaranteed.	9.5	4.0	6.5	4564 Meets guarantee, and conforms to requirements for chop feed.
Pure Corn, Oats & Barley. Registered.	As found.	10.41	4.84	7.5	
	As found.	9.97	4.78	6.7	4564 Sold as chop feed. Meets standard requirements. No guarantee.

F. N. W. E. BELAND, INSPECTOR

Mineral matter 18.2 p.c.	37388	Is a condition powder, and sold as such—Not a food.
Mineral matter 11.6 p.c.	37389	
Mineral matter 9.40 p.c.	37390	Is a condition powder, and sold as such—Not a food.
Mineral matter 20.4 p.c.	37391	Is a condition powder.
Mineral matter 20.3 p.c.	37392	
Mineral matter 20.2 p.c.	31393	" "
	37394	Is a condition powder, and sold as such—Not a food.
Mineral matter 20.0 p.c.	37395	Is a condition powder.
	37396	Is a condition powder.

J. C. ROULEAU, INSPECTOR

No. Reg. Number.	37657	Is a condition powder.
	37658	
	37659	
	37660	
	37661	
	37662	



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF ST. HYACINTHE—							
1912.							
Feb. 27	Perfection ....	39063	G. E. Aubin, Actonvale..	1 pkgs	50	D. Frechette, St. Hyacinthe.	
" 27	Acme.....	39064	A. Chicoine, Actonvale...	1	25	Frazier Norton & Co., Cookshire.	
" 28	Hackney ...	39065	O. T. Piche, Drummondville.	1 "	50	The Hackney S. Food Co., Ltd., Toronto.	
" 28	La Cadienne..	39066	T. A. Bourgault, Drummondville.	1 "	25	J. T. Herbert, Drummondville.	
" 28	Purina.. . . .	39067	A. Birtz, Drummondville.	1 "	40	.....	Stock of J. N. Potvin, D'Ville
" 28	Herbageum...	39068	R. Cardin, Drummondville.	1 "	50	The Beaver Mfg. Co., Ltd., Galt.	
Mar. 4	Regal.....	39069	Berthiaume & Lanoue, Farnham.	3 lbs.	...	Ogilvie Milling Co.	
" 4	Kamoat ....	39070	" " "	3 "	...	Lake of the Woods Milling Co.	
" 5	Bran.....	39071	Beaudry & Beauchemin, Granby.	3 "	...	W. C. F. M. Co., Ltd.	
" 5	Schumacher ..	39072	" " "	3 "	...	The Quaker Oats Co., Peterboro.	
" 6	Ox Meal... ..	39073	J. S. Maguire, Waterloo, P.Q.	3 lbs.	6	Lake of the Woods Milling Co.	
" 6	Bibby's Cream Equivalent.	39074	A. E. Ralston, Knowlton	3 "	14	J. Bibby & Sons, Liverpool.	
" 7	Banner .....	39075	A. Oliver, Cowansville..	3 "	...	The Quaker Oats Co., Peterboro.	
" 7	Middlings...	39076	" " "	3 "	...	West. Canada F. M. Co., Ltd.	
" 7	Victor Feed ..	39077	J. O. Ostigny, Adamsville	3 "	...	The Quaker Oats Co., Peterboro.	
" 13	Eureka ...	39078	Laperriere & fils, Pierreville.	3 "	...	Ogilvie Milling Co.	
" 20	Calf Meal ....	39079	W. K. Mackenzie, Richmond, P.Q.	3 "	...	The Blatchford Calf Meal Factory, Wankegan, Ill.	
" 20	Pioneer Cotton Seed Meal..	39080	D. Taylor, Richmond, P.Q	3 "	...	J. E. Soper & Co., Roston.	

DISTRICT OF MONTREAL—

Mar. 10	Bran.....	40841	T. Longtin, Valleyfield, P.Q.	3 lbs.	10	West. Canada F. Mills Co. Ltd.	
" 13	Oxmeal... ..	40842	J. P. Lebel, Commissioner St., Montreal.	3 "	8	Lake of the Woods Milling Co., Ltd.	
" 13	Kamoat .....	40843	" " "	3 "	5	"	
" 13	Feed Flour....	40844	" " "	3 "	7	West Canada F. M. Co., Ltd.	
" 13	Shorts... ..	40845	" " "	3 "	5	"	



## SESSIONAL PAPER No. 14

## REGISTERED STOCK FEEDS.

Inspector's Report (Is not an expression of opinion.)		Results of Analysis.			Amount in %	Remarks and Opinion of the Chief Analyst.
		Proteids	Fat.	Fibre.		
<i>Continued.</i>						
No. Reg. Number		p.	p.c.	p.c.		
						30063 Is a medicine. Labeled sand- tion powder.
						30064 Is a medicine.
						30065 "
						30066 "
						30067
						30068
Moloch Molange	No. As guaranteed	9.0	4.25	9.0	30069	Meets guarantee.
reg. number found	As found.	9.65	4.46	8.9		
on bag.						
Reg. No. 50	As guaranteed	11.0	2.5	16.0	30070	2.16 per cent deficiency in pro- teids. Adulterated.
	As found.	8.81	2.06	15.9		
66	As guaranteed	16.82	5.50	10.86	30071	Meets guarantee; also requires more bran.
	As found.	15.75	4.69	9.9		
13	As guaranteed	10.5	4.6	10.5	30072	Meets guarantee.
	As found.	9.88	3.0	10.4		
51	As guaranteed	15.5	3.2	7.6	30073	1.50 per cent deficiency in pro- teids.
	As found.	14.80	3.36	7.1		
82...	As guaranteed	14.0	14.0	7.0	30074	Meets guarantee.
	As found.	15.66	14.35	5.6		
16	As guaranteed	8.5	3.5	9.0	30075	
	As found.	8.72	3.20	8.5		
68	As guaranteed	16.73	4.39	5.2	30076	Meets guarantee; also requires ments for middlings.
	As found.	16.06	4.48	4.2		
14	As guaranteed	8.0	3.5	12.0	30077	Meets guarantee.
	As found.	8.48	3.4	9.5		
102	As guaranteed	9.5	4.5	13.5	30078	1.6 per cent deficiency in fat.
	As found.	8.79	2.89	13.8		
Reg. No. not shown on bags.	As guaranteed	25.0	5.0	5.0	30079	Meets guarantee.
	As found.	25.80	4.86	6.5		
Guaranteed Analysis As guaranteed		4.0	7.0	10.0	30080	
stamped on card but	As found.	41.44	7.96	8.8		
no reg. number to be						
found.						

J. J. COSTIGAN, INSPECTOR.

Reg. No. 66.....	As guaranteed	16.82	5.5	10.86	40841 2.02 per cent deficiency in pro- teids; meets legal requirements for bran.
	As found.	14.80	4.76	9.7	
51 .	As guaranteed	16.5	3.20	7.60	40842 Meets guarantee.
	As found.	15.66	3.38	5.2	
50	As guaranteed	11.0	2.5	16.0	40843 1.69 per cent deficiency in pro- teids.
	As found.	9.31	2.08	15.7	
65 .	As guaranteed	16.23	3.30	3.29	40844 Meets guarantee.
	As found.	15.66	2.88	2.7	
63	As guaranteed	18.38	6.02	7.99	40845 Meets guarantee; also legal re- quirements for shorts
	As found.	17.98	5.2	7.0	



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF MONTREAL—							
1912.							
Mar. 13	Kremo Feed.	40846	W. C. F. Mills Co., Ltd., Montreal.	3 lbs.	...	Vendors. ....	...
" 13	Kamoat .. . . .	40847	Lake of the Woods Milling Co., Ltd., Montreal	3 "	...	" .....	...
" 13	Ox Meal.....	40848	Lake of the Woods M. Co. Ltd., Montreal.	3 lbs.	...	" .....	...
" 13	Canadian Concentrated Veg. Stock Feed.	40849	Aime Guertin, Notre Dame St. E., Montreal.	3 "	...	Vendor ..	...
" 14	Molassine Meal	40850	Andrew Watson, Place Youville, Montreal.	3 "	...	Molassine Co., Ltd. London, Eng.	...
DISTRICT OF OTTAWA—							
Feb. 5	Banner .. . . .	50171	W. H. Poole, Smith's Falls	5 lbs.	10	The Quaker Oats Co., Peterboro.	Mfrs. ....
" 5	Victor .. . . .	50172	" "	5 "	10	" ..	" .....
" 5	Crescent ...	50173	" "	5 "	10	The Chisholm M Co., Toronto.	" .....
" 5	Sugar & Flax-seed.	50174	A. May, Smith's Falls....	3 "	18	Blatchford Calf Meal Factory, Wankegan, Ill.	" .....
" 5	Calf Meal ....	50175	" "	3 "	18	" ..	" .....
" 6	Herbageum...	50176	J. W. McKay, Ottawa....	4 "	60	The Beaver Mfg. Co., Galt, Ont.	" .....
" 6	All Grain.....	50177	" "	3 "	5	W. R. Cummings, Ottawa.	" .....
" 6	Caldwell's Molasses Meal..	50178	" "	3 "	9	The Caldwell Feed Co., Ltd., Dundas, Ont.	" .....
" 6	New Process Oil Cake.	50179	" "	3 "	9	J. & J. Livingston, Baden, Ont.	K. McDonald & Sons, Ottawa.
" 6	Pioneer Cotton Seed Meal.	50180	" "	3 "	6	J. E. Soper Co., Boston.	W. R. Cummings Ottawa.
" 6	International..	50181	" "	3 pkgs	75	International Stock Food Co., Minneapolis.	Mfrs.....
" 7	Ruby Feed....	50182	Tilton & Graham, Cornwall wall.	3 lbs.	5	Canada C. & M. Co., Lindsay.	" .....
" 7	Rex Sugar Feed.	50183	Jno. F. Jarvo, Cornwall..	3 lbs.	30	The Rex Sugar F. Co., Weston, Ont.	" .....
" 7	Calf Meal . . .	50184	D. McDonald, Cornwall..	3 "	15	International Stock Food Co., Toronto.	" .....
" 8	Bibby's Cream Equivalent.	50185	W. A. Blyth, Ottawa....	3 "	15	J. Bibby & Son, Liverpool, Eng.	W. Rennie & Co. Toronto.
" 16	Maize Gluten Meal (Jersey Brand.)	50186	J. A. Forward, Ottawa...	3 "	15	St. Lawrence Starch Co., Port Credit, Ont.	W. H. Dwyer, Ottawa, Ont.
" 13	Gluten Meal..	50187	E. J. McGarry, Renfrew.	5 "	20	Edwardsburg Starch Co., Cardinal.	Mfrs ..



## SESSIONAL PAPER No. 14

## REGISTERED STOCK FEEDS.

Inspector's Opinion Is not an expression of opinion.	Analysis of Sample.	Results of Analysis.			Remarks and Opinion of the Chief Analyst.	
		Proteids	Fat.	Fibre		
						Percentage
<i>Continued.</i>						
		p. c.	p. c.	p. c.		
Reg. No. 74 . . . . .	As guaranteed	11.56	2.46	16.0	40846 2.02 per cent deficiency in proteids.	
	As found.	9.54	1.62	16.3		
50 . . . . .	As guaranteed	11.0	2.5	16.0	40847 Meets guarantee.	
	As found.	11.46	1.86	11.0		
51 . . . . .	As guaranteed	16.5	3.20	7.60	40848 1.58 per cent deficiency in proteids.	
	As found.	14.92	3.56	5.6		
56 . . . . .	As guaranteed	25.0	6.25	2.0	40849 Meets guarantee.	
	As found.	23.89	7.0	1.9		
123 . . . . .	As guaranteed	7.0	0.05	7.0	40850	
	As found.	5.75	0.20	6.1		

J. A. RICKLEY, INSPECTOR

Reg. No. 16 . . . . .	As guaranteed	8.5	3.5	9.0	50171 Meets guarantee.
	As found.	8.72	3.0	8.6	
No. Reg. number nor analysis on bags.	As guaranteed	8.0	3.5	12.0	50172
	As found.	7.61	3.17	11.6	
Reg. No. 84 . . . . .	As guaranteed	9.0	3.0	20.0	50173 1.08 per cent deficiency in proteids; 1.36 deficiency in fat.
	As found.	7.92	3.64	16.1	
No. Reg. No. on bags.	As guaranteed	27.0	10.0	6.0	50174 2.58 per cent deficiency in proteids.
	As found.	24.42	9.54	7.0	
	As guaranteed	25.0	3.0	5.5	50175 Meets guarantee.
	As found.	26.24	5.25	6.2	
No Reg. No. nor analysis on bags.	As found.	11.68	4.04	10.4	50176 Is a medicine, not a food.
					50177 Meets requirements for Chop Feed.
Reg. No. 124 . . . . .	As guaranteed	4.61	0.81	3.71	50178 Meets guarantee.
	As found.	4.81	0.48	4.5	
No Reg. No. nor analysis on bags.	As guaranteed	37.12	8.0	6.53	50179 4.68 per cent deficiency in proteids.
	As found.	33.04	7.90	7.5	
No Reg. No. on bags.	As guaranteed	41.0	7.0	10.0	50180 Meets guarantee.
	As found.	41.56	7.12	9.2	
No analysis nor Reg. No. on bags.					50181 Is a medicine, not a food.
Reg. No. 115 . . . . .	As guaranteed	8.34	2.65	19.64	50182 Meets guarantee.
	As found.	8.01	2.03	16.1	
No analysis nor Reg. No. on bags.	As found.	9.32	0.94	4.7	50183 Not registered. Sale Illegal.
No Reg. No. on bags.	As guaranteed	24.0	3.0	10.0	50184 7.73 per cent deficiency in proteids; 5.46 excess fat.
	As found.	16.27	10.46	9.1	
No analysts nor Reg. No. on bags.	As guaranteed	14.0	14.0	7.0	50185 2.31 per cent deficiency in fat.
	As found.	16.32	11.69	6.0	
Reg. No. 31 . . . . .	As guaranteed	18.0	3.0	6.0	50186 Meets guarantee.
	As found.	18.29	1.97	5.6	
Bags registered No. 53 is No. Reg. with Dept.	As guaranteed	23.0	3.0	6.0	50187
	As found.	20.02	2.85	1.1	



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of the Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF OTTAWA—

1912.							
Feb. 16	Pure Oil Cake Meal.	50188	J. A. Forward, Ottawa.	3 lbs.	15	St. Lawrence Starch Co., Port Credit, Ont.	W. H. Dwyer, Ottawa.
" 16	Barley Feed..	50189	Ogilvie F. M. Co.....	3 "	15	Vendors.....	

DISTRICT OF KINGSTON—

Feb. 5	Royal Purple..	49551	J. McLeod, Kingston....	3 lbs.	100	W. A. Jenkins, London, Ont.	
" 5	Schumacher ..	49552	W. G. Peters, Kingston..	3 "	10	Quaker Oats Co., Peterboro.	
" 8	" ..	49555	Quaker Oats Co., Peterboro.	3 "	10		
" 8	Banner.....	49556	" "	3 "	10		
" 8	Victor . . . .	49557	" "	3 "	10		
" 8	Molac (Horse)	49558	" "	3 "	10		
" 8	" (Dairy)	49559	" "	3 "	10		

DISTRICT OF TORONTO—

Feb. 6	Reg. Stock Feed.	49321	The Caldwell Feed Co., Ltd., Dundas.	3 lbs.	5	Vendors.....	
" 7	Oat Feed....	49367	Hayes & Ryan, Market Square, Hamilton.	3 "	5	Canada Cereal & M. Co., Canada.	
" 7	Victor.....	49368	J. Penfold, 96 John St., South, Hamilton.	3 "	10	The Quaker Oats Co., Peterboro.	
" 7	Star Poultry Meal.	49369	The Jas. Dunlop Co. Ltd., 127 John St. South, Hamilton.	3 "	5	Vendors .....	
" 7	Alert Mixed Chop.	49370	" "	3 "	5	" .....	
" 8	Schumacher ..	49371	W. Pringle & Son, 280 York St., Hamilton.	3 "	5	The Quaker Oats Co., Peterboro.	
" 12	Crescent .....	49372	The Chisholm Milling Co. Ltd., Toronto.	3 "	5	Vendors.....	
" 13	'Jersey' Brand Maize Gluten Meal.	49373	St. Lawrence Starch Co., Ltd, Port Credit.	3 "	5	" .....	
" 13	Pure Oil Cake Meal.	49374	" "	3 "	5	" .....	
" 14	Horse Food...	49375	Faramel Ltd., 222 Dupont St., Toronto.	3 "	5	" .....	
" 14	Cattle Food...	49376	" "	3 "	15	" .....	
" 14	Molassine Meal	49377	F. Greenway, 1239 Bloor St., West, Toronto.	3 "	15	" .....	A. Wilson, Agent Toronto.



SESSIONAL PAPER No. 14  
REGISTERED STOCK FEEDS.

Inspector's Report (Is not an expression of opinion.)	Analysis of Sample.	Results of Analysis.			Remarks and Opinion of the Chief Analyst.
		Protein.	Fat.	Fibre.	

Continued.

		p.c.	p.c.	%	
Reg. No. 32.	As guaranteed	10.0	11.0	8.0	5.45 Deficiency of 1.23 per cent of fat.
	As found.	20.05	12.77	7.5	
No analysis nor Reg. No. on bags.	As guaranteed	10.0	2.5	8.5	50189 Meets guarantee.
	As found.	12.34	2.10	5.6	

JAS. HOGAN, INSPECTOR.

Reg. No. 12 under P. Act					4000 Is a medicine, not a food.
Reg. No. 13.....	As guaranteed	10.5	4.0	10.5	4002 Deficiency of 1.6 per cent fat.
	As found.	10.10	2.35	9.5	
" 13	As guaranteed	10.5	4.0	10.5	4955 Meets guarantee.
	As found.	9.97	2.99	10.4	
" 16	As guaranteed	8.5	3.0	9.0	4006
	As found.	8.2	2.98	8.9	
" 14	As guaranteed	8.0	3.0	12.0	4007
	As found.	7.79	2.6	11.7	
" 15	As guaranteed	10.0	3.0	12.0	4008
	As found.	11.27	2.58	12.1	
" 17	As guaranteed	15.0	3.0	12.0	4009
	As found.	15.01	3.71	13.8	

H. J. DAGER, INSPECTOR.

	As guaranteed	4.0	0.81	2.71	49321 Up to guarantee.
	As found.	5.33	0.20	4.5	
Bags not Reg.	As found.	5.24	1.43	28.6	4906 Not registered and of very low value. It is not a Chop Feed is adulterated under the Act.
Reg. No. 14.....	As guaranteed	8.0	3.5	12.0	
	As found.	8.53	2.96	10.4	4368 Up to guarantee.
" 80.....	As guaranteed	10.93	3.04	10.11	
	As found.	20.06	4.29	7.4	49370 Up to guarantee ; also meets requirements for chop feed.
" 79....	As guaranteed	10.38	4.17	10.77	
	As found.	12.99	5.23	6.3	49371 Up to guarantee.
" 13	As guaranteed	10.5	4.0	10.5	
	As found.	11.11	3.09	10.5	4072
" 84 . . . . .	As guaranteed	9.0	5.0	20.0	
	As found.	9.56	4.79	15.1	49373 2.20 per cent deficiency in proteins.
" 31 . . . . .	As guaranteed	18.0	3.0	6.0	
	As found.	15.8	2.46	5.8	4070 Up to guarantee.
" 32	As guaranteed	20.0	11.0	8.0	
	As found.	12.91	4.00	8.5	4075 Up to guarantee.
" 60.....	As guaranteed	15.00	5.08	9.4	
	As found.	10.72	4.45	7.2	4076
" 61.....	As guaranteed	13.05	4.16	7.64	
	As found.	12.2	3.25	6.0	4937
No. Reg. number on bags.	As guaranteed	7.0	0.05	7.0	
	As found.	9.71	0.16	6.0	



Date of Collection.	Analysis of Sample.	No. of Sample.	Name and Address of the Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF TORONTO—

1912.							
Feb. 15	Blatchford's Calf Meal.	49378	W. H. Odell, Weston....	3 lbs.	15	J. W. Barwell, Wankegan, Ill.	
" 15	Blatchford's Sugar & Flax-seed.	49379	" "	3 "	15	" "	
" 16	Ruby Chop	49380	Jas. Reynolds, Aurora....	3 "	5	Canada Cereal & M. Co., Lindsay	
" 16	Gluten Feed	49381	Stiver Bros., Aurora..	3 "	5	The Brantford Starch Works, Ltd., Brantford.	
" 19	Bibby's Cream Equivalent.	49382	S. F. M. O'Flynn & Son, Shelburne.	3 lbs.	15	Bibby & Sons, Liverpool.	
" 28	Dried Brewers (Pro Fat) Grains.	49383	Farmers Feed Co., Ltd., 108 Don Esplanade, Toronto.	3 "	5	Vendors.	
" 28	Malted Corn..	49384	" "	3 "	5	" "	
" 29	Molac.	49385	Crampsey & Kelly 778 Dovercourt St., Toronto	3 "	5	The Quaker Oats Co., Peterboro.	
" 29	Dairy Feed	49386	" "	3 "	5	Canadian Cereal & Milling Co., Ltd. Tillsonburg.	

DISTRICT OF LONDON—

Feb. 19	Caldwell's Molasses Meal.	47889	W. J. Heaman, Exeter...	3 jars.	15	Caldwell Feed Co., Dundas, Ont.	
" 19	Stock Feed....	47890	" "	3 "	25	International Stock Food Co., Toronto.	
" 20	Royal Purple Stock Specific.	48204	Ford & McLeod, Clinton.	3 "	50	W. A. Jenkins Mfg. Co., London, Ont.	
" 20	Pratt's Conditioner.	48206	" "	3 "	25	Pratt Food Co., Toronto.	
" 22	Bartlett's Farmers Brand Cotton Seed Meal.	48224	O. H. Killer, Stratford...	3 "	Nil.	Bartlett Co., Detroit, Mich.	

DISTRICT OF WINDSOR

Feb. 15	Cotton Seed Feed Meal "Cream" Brand.	47880	A. M. Hamilton & Son, London.	a s.	Nil	Tennessee Fibre Co., Memphis, Tenn.	
Jan, 12	Cotton Seed Meal ("Gayoso") Brand.	48075	D. B. Cohoe, Burgessville	3 "	"	Gayoso Oil Works, Memphis, Tenn.	



## SESSIONAL PAPER No. 14

## REGISTERED STOCK FEEDS.

Inspector's Report (Is not an expression of opinion.)		Analysis of Sample	Results of Analysis			No. of Sample	Remarks and Opinion of the Chief Analyst.
			Proteins	Fat	Fibre.		
<i>Continued</i>							
			p.c.	p.c.	p.c.		
No. Reg. Number on bags.	As guaranteed	25.0	5.0	5.0	49378	Up to guarantee.	
	As found.	25.20	4.96	5.9			
	As guaranteed	27.0	10.0	6.0	49379		
	As found.	25.90	9.86	6.5			
Reg. No. 115	As guaranteed	8.34	2.66	10.64	49380		
	As found.	7.52	2.29	17.1			
12 . . .	As guaranteed	15.0	10.0	6.0	49381	1.56 per cent deficiency in proteins.	
	As found.	13.04	11.24	6.1			
No. Reg. number on bags.	As guaranteed	14.0	14.0	7.0	49382	Up to guarantee.	
	As found.	17.28	15.10	6.3			
Reg. No. 98	As guaranteed	20.04	5.23	22.04	49383		
	As found.	23.33	5.59	13.4			
140 . . . . .	As guaranteed	15.13	3.11	6.0	49384		
	As found.	17.67	2.74	6.2			
Analysis on bags but no Reg. number.	As guaranteed	15.0	3.5	12.0	49385		
	As found.	15.92	3.48	12.1			
No. Reg. number on bags.	As guaranteed	17.0	4.5	15.0	49386	3.53 per cent deficiency in proteins; 5.6 excess fibre.	
	As found.	13.47	3.35	20.6			

## JNO. TALBOT, ACTING INSPECTOR.

Reg. No. 124 . . . . .	As guaranteed	4.6	0.81	2.71	47889	Up to guarantee.
	As found.	5.04	0.20	4.2		
					47890	Is a medicine, not a food.
					48204	
Reg. No. 448 . . . . .					48206	Is a condition powder, not a food.
	As guaranteed	11.0	7.0	10.0	48224	Up to guarantee.
	As found.	40.16	7.38	9.9		

## JNO. TALBOT, INSPECTOR.

No. Reg. No.	As guaranteed	20.0	5.0	22.0	47880	Up to guarantee.
	As found.	22.63	4.52	20.6		
	As found.	43.75	6.78	7.00	48075	Not registered. No sale.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF MANITOBA—							
1912.							
Feb. 15	Stock Feed...	48631	Olafsson Grain Co., Win-nipeg.	4lbs..	50	InternationalStock Food Co., Tor-onto.	Scott, Bathgate & Co., Win-nipeg.
" 15	"	48632	Carnefac Stock Food Co., Winnipeg.	3 "	50	W. B. Douglas, Winnipeg.	.....
" 15	"	48633	Laing Bros., Winnipeg...	3 "	25	Colonial Stock Food Co., Wes-ton, Ont.	.....
" 15	"	48634	" " " "	3 "	50	Pratt Food Co. of Canada, Ltd.	.....
" 15	"	48635	The Mayer Co., Ltd., Winnipeg.	3 "	Nil.	Vendors .....	.....
DISTRICT OF CALGARY—							
Mar. 9	Stock Feed.	44151	Hegler & Hegler, Edmon-ton.	3 lbs	25	De Hess & Clark, Ashland, U.S.	.....
" 9	"	44152	" " " "	3 "	25	InternationalStock Food Co., Min-neapolis.	.....
" 19	"	44153	A. E. McKenzie Co., Ltd., Calgary.	3 "	25	G. E. Lee Co.....	.....
" 19	"	44154	" " " "	3 "	73	The G. E. Conkey Co., Cleveland, U.S.	.....
DISTRICT OF NELSON—							
Feb. 13	Stock Feed.	49602	J. H. Clements, Kam-loops.	1 pkg.	50	InternationalStock Food Co., Minne-apolis.	.....
" 20	"	49629	McNair & Haddock, Ash-croft.	3 lbs	10	.....	Evans, Coleman & Evans, Van-couver.
" 20	"	49630	Harvey Bailey Ltd., Ash-croft.	5 "	60	Beaver M'fg. Co. Galt.	.....
Apr. 1	Beef Scrap ...	49639	Swift Canadian Co., Nel-son, B.C.	3 "	25	Swift Canadian Co., Edmonton.	.....
" 1	Poultry Bone.	49640	" " " "	3 "	25	"	.....
DISTRICT OF VANCOUVER—							
Feb. 23	Stock Feed...	38315	Vancouver Milling and Grain Co., Vancouver.	3 lbs	Nil.	Vendors .....	.....
" 23	"	38316	Brackman Ker Milling Co., New Westminster.	3 "	"	"	.....



## SESSIONAL PAPER No. 14

## REGISTERED STOCK FEEDS.

Inspector's Report (Is not an expression of opinion.)	Analysis of Sample	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Proteids	Fat.	Fibre.		

## A. C. LARIVIERE, INSPECTOR.

		p.c.	p.c.	p.c.		
					48631	Is not registered.
					48632	
					48633	
					48634	
Reg. No. 11	As guaranteed	18.50	5.17	3.1	48635	Up to guarantee as registered,
	As found	20.65	6.10	6.40		but improperly labelled as con- taining 22.17 p.c. proteids.

## R. W. FLETCHER, INSPECTOR.

					44151	Is not registered.
					44152	
					44153	
					44154	

## THOS. PARKER, INSPECTOR.

					49602	Is not registered.
	As found.	2.77	0.38	35.2	49629	Not registered. Is adulterated as chop feed.
					49630	Is not registered.
Reg. No. 134	As guaranteed	50.0	8.0	none.	49639	Up to guarantee.
	As found.	62.20	12.62			
122	As guaranteed	25.0	5.0	Phos	49640	Deficiency 13.36 per cent of fat
				phate of lime		
	As found.	24.86	1.64	50 p.c.		
				56.75		

## J. F. POWER, INSPECTOR.

Reg. No. 131	As guaranteed	10.0	2.5	10.8	38315	Up to guarantee.
	As found.	18.90	3.88	19.7		
138	As guaranteed	18.0	5.0	10.0	38316	4.22 per cent deficiency in pro- teids, and 1.62 in fat.
	As found.	13.78	3.38	9.3		



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VICTORIA—

1912.							
Mar. 12	Corn Chop....	49130	The Brackman Ker Mill- ing Co., Ltd., Victoria, B.C.	3 lbs .	8	Vendors . . . . .	
" 12	Dairy Chop. .	49131	" "	3 " .	9	" . . . . .	
" 12	Jersey Chop .	49132	" "	3 " .	8	" . . . . .	
" 12	Dairy Chop..	49133	T. H. Howe, Victoria, B.C.	3 " .	...	Vancouver M. Co., Vancouver, B.C.	
" 12	Reg. Stock Feed.	49134	" "	3 " .	...	Ogilvie Flour Mills, Winnipeg.	



## SESSIONAL PAPER No. 14

## REGISTERED STOCK FEEDS.

Inspector's Report (Is not an expression of opinion).	Analysis of Sample.	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Proteids	Fat.	Fibre.		

D. O'SULLIVAN, INSPECTOR.

		p.c.	p.c.	p.c.	
Reg. No. 136	As guaranteed	9.0	4.0	5.0	19130 Up to guarantee and legal as chop feed.
	As found.	11.81	3.92	7.2	
137	As guaranteed	7.0	3.0	15.0	19131 Up to guarantee, but below legal chop feed.
	As found.	6.42	2.40	17.6	
138	As guaranteed	18.0	5.0	10.0	19132 Up to guarantee, and up to legal standard for chop feed.
	As found.	19.60	4.52	12.6	
" 131.....	As guaranteed	10.0	2.5	18.0	19133 Up to guarantee and to legal chop feed.
	As found.	10.76	2.08	9.2	
Statement re Schedule A was printed on sacks, except Reg No. which was not visible on any of the sacks.	As found.	6.24	2.52	25.10	19134 No guaranteed analysis given by Vendor hence sale illegal.



## APPENDIX F.

## BULLETIN No. 242—FERTILIZER INSPECTION 1912.

OTTAWA, September 23, 1912.

WM. HIMSWORTH, Esq.,  
Acting Deputy Minister Inland Revenue.

SIR,—I have the honour to report to you upon 324 samples of fertilizers collected by our inspectors in April and May of this year. This report should have been in your hands some months ago, and many inquiries have been made for it by interested parties. The delay has been quite unavoidable and is due to the fact that this laboratory is undermanned, and is quite unable to keep up with the demands made upon it.

One of the samples in question is not a fertilizer in the legal sense (No. 37457) so that the present report deals only with 323 samples.

Of this number 287 samples meet the guaranteed value of the brands which they represent, and for which they are sold. Twenty-six (26) other samples which were sold without registration numbers have been identified as to their registration by the records filed with the Department.

For purposes of such identification use has been made of the name of the brand and the name and the location of the manufacturer. The samples now referred to meet the requirements of the guaranteed value; and note of this is made in the report. Registration numbers supplied from Departmental records as just described, are printed in brackets, to distinguish them from registration numbers furnished by our inspectors, as found on the samples.

Strictly speaking the 26 samples in question are sold illegally (Section 7 of the Act) and the vendors are amenable to the penalties named in Section 15.

There is nothing to justify failure to observe the requirements of an Act which has been three years in existence; and it is my duty to recommend enforcement of legal penalties in these cases. There remain 10 samples to be specially considered as follows:—

No. 47072. Is sold without a registration number, although its guaranteed value appears on a tag. It shows 10 per cent deficiency in phosphoric acid, and is adulterated under the Act.

No. 47073. Is not registered, and is amenable to penalties imposed by Section 15.

No. 47089. This sample is adulterated as being 6 per cent below its guarantee in phosphoric acid.

No. 47093. This sample is adulterated as being 3.5 per cent below guarantee value in potash, and 0.75 below in ammonia.

37433. Is not a manufactured fertilizer and said to be sold by mistake.

No. 37437. Is slightly below strength in ammonia. The total value of the fertilizer is however fully equal to its guarantee, there being compensating excess of phosphoric acid.

No. 49407. Is more than one per cent below guarantee in nitrogen, but value is compensated by excess of phosphoric acid.



## SESSIONAL PAPER No. 14

No. 48255. Samples said to be from old stock, not offered for sale.

No. 44179. Is not registered, and therefore amenable to penalty fixed by Section 15 of the Act.

No. 38348. Sold without registration, therefore subject to penalties fixed by Section 15.

As already stated, this Act has been three years in existence and there should be no difficulty, in securing its strict enforcement. Nevertheless, I am convinced the present machinery is inadequate to this end.

Fertilizers are largely sold to consumers without coming into the possession of agents, or being held in stock by these last. This fact makes it difficult to obtain samples of the goods which actually come into the hands of the consumers.

In order to get these, it would be necessary for our inspectors to visit the consumers, a condition manifestly impossible of fulfilment. Provision is made in Section 10 of the Act, for the user of the fertilizer himself to secure analysis of the goods supplied him, on payment of a nominal sum. As a matter of fact comparatively few purchasers of fertilizers avail themselves of this privilege, less on account of the cost than because of the difficulty of securing a legally representative sample of goods.

The 323 samples herein reported represent 234 different brands, of which 108, or nearly one-half are imported. It would appear to be easily possible to secure samples of these by co-operation with officials of the Customs Department who could sample the goods at the port of entry; or notify our own inspectors to do this. I shall endeavour to have the suggested plan carried out during the coming year. There appears to be a very sincere desire on the part of manufacturers to live up to the requirements of the Act; and the few instances of failure to meet its demands are seemingly due to carelessness, rather than to any purposed fraud.

In many cases where the dealer has been guilty of selling without a registered number, it has been found by correspondence that the article sold was actually registered by the manufacturer but sold without production of the registration number. In such case the dealer alone is to be blamed. Where through carelessness in handling or storage the registration number is obliterated or lost, the vendor is guilty of violating the terms of the Act, although such violation may be quite unintentional.

I beg to recommend the publication of this report as Bulletin No. 242.

I have, the honour to be, Sir,  
Your obedient servant,

A. MCGILL,  
*Chief Analyst.*



Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA

1912.								
April 29	1-8-5 Brand	47064	G. Roy, Kentville.	3 lbs.	Nil.	Dom. Fert. Co., St. Stephens, N.B.		
" 29	Ground Bone.	47066	Berwick Fruit Co., Berwick, N.S.	3 "	"	Nova Scotia Fert. Co., Ha- lifax, N.S.		Not num- bered.
" 29	Chutes Special.	47067	" "	3 "	"	Pidgeon Fert. Co., Windsor, N.S.		
" 29	Ground Bone.	47068	" "	3 "	"	" "		
" 29	Scotch Potato Manure.	47069	United Fruit Co., Berwick, N.S.	3 "	"	A. Cross & Son, Glasgow, Scot.		
" 29	Basic Slag A. Quality.	47070	" "	3 "	"	A. Cross & Son, Sydney, N.S.		
May 3	Thomas Phos- phate Flour.	47071	D. Hill, Truro, N. S.	3 "	"	Leeds Phosphate Works, Leeds, Eng.		
" 3	Potato Phos- phate.	47072	Colchester Co., Far- mers Co-op. Ass., Truro, N.S.	3 "	"	F. D. Burris, Truro, N.S.		No reg. num- ber on bag.
" 7	Ground Bone.	47073	Illsley & Harvey, Port Williams, N.S.	3 "	"	Unknown	Holinghurst & Co., Lon- don, Eng.	No number on bag.
" 7	Nitrate of Soda	47074	" "	3 "	"	"	Pidgeon Fer- Co., Wind- sor, N.S.	
" 7	Stockbridge Complete Manure.	47075	Burgess & Co., Wolfville, N.S.	3 "	"	Bowker & Co., Boston, Mass.		
" 7	Market Gar- den.	47076	" "	3 "	"	" "		
" 7	6% Potato Phosphate.	47077	" "	3 "	"	" "		
" 7	Ground Bone.	47078	R. E. Harris & Son, Wolfville, N.S.	3 "	"	Swifts Lowell Fert. Co., Lowell Mass.		
" 7	Potato Phos- phate.	47079	" "	3 "	"	" "		
" 7	Potato Manure	47080	" "	3 "	"	" "		



SESSIONAL PAPER No. 14  
FERTILIZERS AS SOLD.

Results of Analysis.											
Registration Number	Analysis of Sample.	Nitrogen, p.c.		Phosphoric Acid, p.c.						Remarks and Opinion of the Chief Analyst.	
		Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total	Total available.	Potash.		Deficiency %
192	As guaranteed As found.	0.80 0.93	1.0 1.13	6.0 5.05	2.0 2.55	1.0 1.75	9.0 9.35	8.0 7.60	5.0 6.18	47064	Meets guarantee. Value equal to assumed guarantee.
44	As guaranteed As found.	 0.84	 1.02	 1.75	 15.50	 13.95	 31.20	 17.25		47066	
275	As guaranteed As found.	4.0 3.38	4.80 4.11	6.0 4.00	1.0 5.35	2.0 2.45	9.0 12.00	7.0 9.55	4.0 4.05	47067	Meets guarantee.
97	As guaranteed As found.	 2.69	 3.26				 20.00 23.55			47068	
45	As guaranteed As found.	2.47 2.58	3.0 3.14	7.0 8.20	1.0 3.10	1.0 2.25	9.0 13.55	8.0 11.50	5.0 4.58	47069	
57	As guaranteed As found.				12.8 14.56		1.04 16.00			47070	
253	As guaranteed As found.						18.0 21.05			47071	
	As guaranteed As found.		4.0 2.49				15.0 4.78		4.0 3.96	47072	
	As guaranteed As found.	2.25 2.73	0.55 13.15	11.25 24.95	13.70		47073	Not registered.			
326	As guaranteed As found.	15.65 16.30	19.0 19.79							47074	Meets guarantee.
88	As guaranteed As found.	3.20 3.22	4.0 3.91	4.0 4.60	2.0 3.90	1.0 1.75	7.0 10.25	6.0 8.50	10.0 11.36	47075	
90	As guaranteed As found.	2.47 2.41	3.0 2.93	4.0 4.25	2.0 2.95	1.0 1.40	7.0 8.60	6.0 7.20	10.0 12.24	47076	
96	As guaranteed As found.	0.82 0.82	1.0 1.00	4.0 5.15	2.0 1.95	1.0 1.70	7.0 8.80	6.0 7.10	6.0 6.72	47077	
117	As guaranteed As found.	2.46 2.53	3.0 3.08				23.0 28.80			47078	
110	As guaranteed As found.	2.46 2.18	3.0 2.65	4.0 6.05	4.0 2.75	1.0 2.45	9.0 10.25	8.0 7.80	6.0 6.68	47079	
14	As guaranteed As found.	1.64 1.83	2.0 2.22	4.0 6.05	3.0 2.65	1.0 1.20	8.0 9.90	7.0 8.70	4.0 5.60	47080	

R. J. WAUGH, INSPECTOR.



Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA—

1912.								
May	7 Ground Bone.	47081	R. E. Harris & Son, Wolfville, N.S.	3 lbs.	Nil.	Essex Fert. Co., Boston, Mass.		
"	7 Corn and Grass	47082	"	3 "	"	"		
"	7 Super-phosphate.	47083	"	3 "	"	"		
"	8 Brunswick Brand.	47084	Pidgeon Fert. Co., Windsor, N.S.	3 "	"	Vendors		
"	8 Potato Manure	47085	"	3 "	"	"		
"	8 No. 1 Slag	47086	"	3 "	"	Stoockman & Hooschitzlee.		
"	8 8" Square B Brand.	47087	F. W. Dimock, Windsor, N.S.	3 "	"	Bowker & Co., Boston, Mass.		
"	10 Imperial Superphosphate.	47088	E. D. Smith, Dartmouth, N.S.	3 "	"	Prov. Chemical Fert. Co., St. John, N.B.		
"	10 Bone Meal....	47089	"	3 "	"			
"	13 Ground Bone.	47090	A. S. Melvin & Co., Halifax, N.S.	3 "	"	Nova Scotia Fertilizer Co., Halifax, N.S.		
"	13 Ceres	47091	"	3 "	"	"		
"	13 Potato Phosphate	47092	"	3 "	"	"		
"	14 High Grade	47093	Nova Scotia Fert. Co., Halifax, N.S.	3 "	"	Vendors		
"	14 Potato Grower	47094	"	3 "	"	"		
"	14 Special Potato Phosphate.	47095	"	3 "	"	"		
"	14 10 % Potato Phosphate	47096	"	3 "	"	"		
"	17 Thomas Phosphate Powder.	47097	Amherst Trading Co., Amherst, N.S.	3 "	"	Leeds Phosphate Works, Leeds, Eng.		
"	17 Basic Slag B. Quality.	47098	R. A. Beckwith, Amherst, N.S.	3 "	"	A. Cross & Sons, Sydney, N.S.		
"	30 Acid Phosphate.	47099	Berwick Trust Co., Berwick, N.S.	3 "	"	Dom. Fert. Co., St. Stephen, N.S.		
"	30 Blood Bone and Potash.	47100	C. O. Cook & Son, Waterville.	3 "	"	Am. Agr. Chem. Co., New York		
"	30 Ground Bone	47091	"	3 "	"	New England Co., Boston, Mass.		No registered number on bags.



## SESSIONAL PAPER No. 14

## FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.								Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid p.c.						
		Total including that of Nitric Acid, if present.	Total calculated as Ammonia	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Insoluble.	Insoluble.	Insoluble.	

Continued.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
(124)	As guaranteed	2.46	3.0				23.0			47081	Meets guarantee.
	As found.	2.80	3.40	1.00	12.20	14.0	27.30	13.25			
120	As guaranteed	0.82	1.0	4.0	4.0	1.0	9.0	8.0	4.0	47082	
	As found.	0.94	1.15	7.80	1.00	2.30	17.20	1.00	4.65		
122	As guaranteed	1.25	1.5	1.0	3.0	1.0	8.0	7.0	2.0	47083	
	As found.	1.22	1.38	5.20	0.00	2.30	1.0	1.00	2.90		
28	As guaranteed		4.0				8.0	8.0	10.0	47084	
	As found.	3.00	4.20			1.15	8.00	7.00	9.54		
29	As guaranteed		2.5					7.0	2.0	47085	
	As found.	2.06	2.50			1.00	9.00	7.00	5.00		
318	As guaranteed				15.0	4.0	18.0			47086	
	As found.				15.00	4.00	20.20	15.00			
95	As guaranteed	1.00	2.0	4.0	2.0	1.0	7.0	6.0	2.0	47087	
	As found.	1.47	1.80	4.25	2.00	1.00	9.70	8.10	2.31		
60	As guaranteed		3.0				10.0		1.0	47088	
	As found.	2.38	2.89			3.20	11.00	8.45	1.73		
72	As guaranteed		3.00				24.15			47089	3.5 p. c. low in potash, and 0.70 in ammonia.
	As found.	2.70	3.30				17.73				
44	As guaranteed		3.0				20.0			47090	Meets guarantee.
	As found.	2.41	2.68				20.00				
37	As guaranteed		2.0			2.0	9.0	7.0	2.0	47091	
	As found.	1.50	1.82			1.10	16.00	8.90	3.00		
38	As guaranteed		2.0			2.0	4.0	7.0	4.0	47092	
	As found.	1.40	2.00			1.70	17.20	9.00	4.75		
56	As guaranteed		4.0			2.0	8.0	6.0	10.0	47093	3.5 p. c. low in potash, and 0.70 in ammonia.
	As found.	1.80	2.20			2.10	8.00	6.15	6.18		
152	As guaranteed		2.0				7.0		2.0	47094	Meets guarantee.
	As found.	1.84	2.23				11.00		3.95		
40	As guaranteed		2.5			2.0	8.0	6.0	7.0	47095	
	As found.	1.71	2.07			2.85	11.25	8.00	6.68		
41	As guaranteed		2.0			2.0	8.0	6.0	10.0	47096	
	As found.	2.00	3.10			2.00	10.70	8.40	11.00		
253	As guaranteed						18.00			47097	
	As found.						18.40				
555	As guaranteed				11.2					47098	
	As found.				14.20	0.85	15.00	14.20			
600	As guaranteed							16.0		47099	
	As found.					2.75	19.40	16.65			
266	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	5.0	47100	
	As found.	0.88	1.07	6.85	2.40	1.25	10.00	9.25	6.85		
(139)	As guaranteed	2.46	3.0				23.0			47101	
	As found.	2.41	2.92				31.60				



Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA—

1912.								
May 30	Plain Super-phosphate.	47102	C. O. Cook & Son, Waterville.	3 lbs	Nil.	Am. Agr. Chem. Co., New York		
" 30	Aroostook Complete Manure	47103	"	3 "	"	"		

DISTRICT OF PRINCE EDWARD ISLAND -

May 8	Nitrate of Soda	46196	John H. Gill, Charlottetown, P.E.I.	5 lbs	15	The Nitrate Agencies Co., New York.		
" 8	Muriate of Potash.	46197	"	3 "	10		The Nitrate Made in Germany.	
" 8	Sulphate of Potash.	46198	"	3 "	10		"	
" 8	Muriate of Potash.	46199	Auld Bros., Charlottetown, P.E.I.	3 "	10		German Kali Works, New York	
" 8	Super-phosphate.	46200	"	3 "	10	Thos Vickers & Sons, Ltd., Manchester, Eng.		
" 8	Nitrate of Soda	46201	"	5 "	15			
" 8	Thomas Phosphate.	46202	"	5 "	10	Swan Bros, Wigan, Eng.		
" 8	Super-phosphate	46203	J. H. Gill, Charlottetown, P.E.I.	3 "	10	Alex. Cross & Son, Ltd., Glasgow, Scot.		
" 20	Phospho Potassic Fertilizer.	46204	J. H. Gill, Charlottetown, P.E.I.	3 "	10	Alex. Cross & Son, Ltd., Glasgow, Scot.		
" 20	Canadian Potato Fertilizer.	46205	"	3 "	10	"		
" 20	Cross' Garden Fertilizer.	46206	"	3 "	10	"		
" 21	Swifts Lowell Animal Brand.	46207	A. Horne & Co., Ch. Town, P.E.I.	3 "	10	Swifts Lowell Fert. Co., Boston, Mass.		
" 22	Ground Bone..	46208	"	3 "	10			No reg. number.
" 22	Swifts Lowell Potato Phosphate.	46209	"	3 "	10	Swifts Lowell Fert. Co., Boston, Mass.		



SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p. c.		Phosphoric Acid p. c.							
		Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.	Potash.		

Concluded.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
309	As guaranteed			12.0	2.0	1.0	15.0	14.0		47102	
	As found.			14.55	3.40	2.15	20.10	17.95			
184	As guaranteed	2.47	3.0	4.0	2.0	1.0	7.0	6.0	19.0	47103	Meets guar
	As found.	2.21	2.68	5.75	3.10	1.15	10.00	8.85	11.08		antee.

WM. A. WEEKS, INSPECTOR.

255	As guaranteed	15.0	18.0							46196	Meets guar
	As found.	15.58	18.93								antee.
257	As guaranteed								50.0	46197	
	As found.								50.00		
258	As guaranteed								40.0	46198	
	As found.								46.80		
327	As guaranteed								50.0	46199	
	As found.								49.75		
324	As guaranteed						16.0			46200	
	As found.					2.20	19.35	17.15			
179	As guaranteed	15.0	18.23							46201	
	As found.	16.00	19.43								
323	As guaranteed				11.20	2.80	14.0	11.20		46202	
	As found.				14.32	3.68	18.00	14.32			
327	As guaranteed			16.0			16.0			46203	
	As found.			17.80			18.70				
427	As guaranteed				9.0				2.5	46204	
	As found.			2.40	6.85	2.40	11.65	9.25	2.12		
516	As guaranteed		3.0				9.0		6.0	46205	
	As found.	3.06	3.50				11.15		6.80		
587	As guaranteed		5.16	7.00					5.00	46206	
	As found.	4.14	5.03	9.15			13.45		4.60		
116	As guaranteed	2.46	3.0	4.0	4.0	2.0	10.0	8.0	4.0	46207	
	As found.	2.41	2.92	7.85	1.60	1.40	10.95	9.45	4.63		
(117)	As guaranteed	2.47	3.0				23.0			46208	
	As found	2.60	3.15				26.05				
(110)	As guaranteed	2.40	3.0	4.0	4.0	1.0	9.0	8.0	6.0	46209	
	As found.	2.74	3.23	6.85	4.50	0.65	12.00	11.35	7.06		



Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF PRINCE EDWARD ISLAND—

1912.								
June 17	Sulphate of Potash.	46210	Auld Bros., Ch. Town, P.E.I.	3 lbs.	....	German Kali Wks. Leopoldshall Strasfurt Ger.		
" 20	Acid Phosphate.	46216	J. H. Gill, Ch. Town, P.E.I.	3 "	"	Nova Scotia Fert. Co., Halifax, N.S.	R. E. Mutch & Co., Ch. Town.	

DISTRICT OF NEW BRUNSWICK—

April 16	Thomas Phosphate Powder.	45655	The Anglo Can. Chem. Co., St. John, N.B.	3 jars.	10	H. & E. Albert, London, Eng.		
" 16	Special Odourless Potato Phosphate.	45656	" "	3 "	10			
" 17	Stockbridge Special Complete Manure.	45657	D. J. Seely & Son, St. John, N.B.	3 "	10	BowkerFert. Co., Boston, Mass.		
" 17	Bowkers 6 <sup>c</sup> Potato Fertilizer.	45658	" "	3 "	10	" "		
" 17	MarketGarden	45659	" "	3 "	10	" "		
" 18	Potato Manure	45660	P. Nase & Son, St. John, N.B.	3 "	15	Lowell Fert. Co., Boston, Mass.		
" 18	Potato Phosphate.	45661	P. Nase & Son, St. John, N.B.	3 jars.	15	Lowell Fert. Co., Boston, Mass.		
" 18	EmpressBrand	45662	" "	3 "	15	" "		
" 19	Farm and Garden Phosphate.	45663	D. J. Seely & Son, St. John, N.B.	3 "	10	BowkerFert Co., Boston, Mass.		
" 19	Bowkers Bone and Potash "Square" Brand.	45664	" "	3 "	10	" "		
" 19	Bowkers Potato and Vegetable Phosphate.	45665	" "	3 "	10	" "		
" 22	10% Complete Aroostook.	45666	The Prov. Chem. Fert. Co., Ltd., St. John, N.B.	3 "	10	Vendors		
" 22	Special Potato Phosphate.	45667	" "	3 "	10	"		
" 22	Potato Manure	45668	" "	3 "	10	"		
" 26	Four-Six-Ten.	45669	Dom. Fert. Co., Ltd., St. Stephens, N. B.	3 "	10	"		



SESSIONAL PAPER No. 14  
FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of analysis.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid p.c.							
		Total including that of Nitric Acid or ammonia if present	Total calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.	Potash.		

Concluded.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
396	As guaranteed As found.								48.0 49.60	46216	Meets guarantee.
328	As guaranteed As found.			16.80	14.9 2.15	2.0 2.15	16.0 18.0	14.0 16.80		46216	

J. C. FERGUSON, INSPECTOR.

1	As guaranteed As found.						1.0 1.25			4665	Meets guarantee.
142	As guaranteed As found.	2.0 1.42	1.72			1.00	7.0 9.10	8.10 7.00		4666	
88	As guaranteed As found.	3.29 3.29	4.0 4.00	4.0 5.45	2.0 3.75	1.0 1.05	7.0 9.45	6.0 8.40	10.0 10.54	4667	
94	As guaranteed As found.	0.82 0.91	1.0 1.11	1.0 1.25	2.0 3.75	1.0 1.05	7.0 9.05	5.0 8.60	6.0 8.95	4668	
90	As guaranteed As found.	2.47 2.31	3.0 2.81	4.0 3.75	2.0 4.20	1.0 0.85	7.0 8.80	6.70 7.95	10.0 10.98	4669	
460	As guaranteed As found.	1.64 1.81	2.0 2.20	3.0 4.00	4.0 4.55	1.0 1.00	8.0 9.55	7.0 8.55	4.0 4.75	4670	
456	As guaranteed As found.	2.46 2.46	3.0 2.98	4.0 7.20	4.0 1.65	1.0 0.95	9.0 9.80	8.0 8.85	6.0 6.58	4671	
458	As guaranteed As found.	1.24 1.04	1.5 1.20	3.0 5.75	4.0 2.10	1.0 1.55	8.0 9.40	7.0 7.8	2.0 2.20	4672	
94	As guaranteed As found.	1.65 1.73	2.0 2.10	6.0 5.85	2.0 3.45	1.0 2.20	9.0 11.50	8.0 9.30	2.0 2.85	4673	
95	As guaranteed As found.	1.65 2.07	2.0 2.52	4.0 6.90	2.0 0.70	1.0 1.65	7.0 9.25	6.0 7.60	2.0 2.72	4674	
92	As guaranteed As found.	1.65 1.85	2.0 2.25	6.0 6.20	2.0 2.40	1.0 2.90	9.0 11.50	8.0 8.60	2.0 2.51	4675	
65	As guaranteed As found.		4.0 3.75				8.0 9.50		10.0 10.93	4676	
63	As guaranteed As found.		2.5 2.67				8.0 9.85		6.0 6.64	4677	
70	As guaranteed As found.		2.0 2.35				7.0 9.60		4.0 4.11	4678	
487	As guaranteed As found.	3.3 3.00	4.0 3.61	4.0 2.60	2.0 1.50	1.00 1.15	7.0 8.25	6.0 7.10	10.0 9.67	4679	



Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NEW BRUNSWICK—								
1912.								
April 26	Three-Six-Ten	45670	Dom. F't. Co., Ltd., St. Stephens, N.B..	3 jars.	10	Vendors....		Name and analysis on bags but no registration number.
" 26	Two-Eight-Ten.	45671	" " "	3 "	10	"		
" 26	Bradleys X. L. Superphosphate.	45672	Hill Bros., St. Stephens, N.B.	3 "	10	The Am. Agr. Chem. Co., Boston, Mass.		
" 26	Bradleys Potato Manure.	45673	" " "	3 "	10	" "		
May 2..	High Grade Potato Phosphate.	45674	Knight & Barr, Fredericton, N. B.			The Nova Scotia Fert. Co., Halifax, N.S.		
" 2.	10% Potato Phosphate.	45675	" " "	3 "	10	" "		
" 2..	New England Potato Fertilizer.	45676	T.W. Sansom, Fredericton, N.B.	3 "	10	New England Fert. Co., Lowell, Mass.		
" 3 .	Reads High Grade Farmers Friend.	45677	Phillips & Estey Co., Woodstock, N.B.	3 "	10	The Am. Agr. Chem. Co., New York.		
" 3..	Great Eastern	45678	Salomon Perley, Woodstock, N.B.	3 "	10	" "		
" 3..	Bradleys High Grade with 10% Potash.	45679	Benn & Turney, Woodstock, N.B.	3 "	10	" "		
" 4..	Coe's Complete Manure with 10% Potash.	45680	Porter Manzer Co. Ltd., Perth, N.B.	3 "	Nil.	The Coe Montimer Co., New York.		
" 6..	Blood Bone and Potash.	45681	Warren Jamer, Andover, N.B.	3 "	15	Prov. Chem. Fert. Co., Ltd., St. John, N.B.		
" 9..	Peerless .....	45682	The Sussex Mercantile Co. Ltd., Sussex, N.B.....	3 "	10	New England Fert. Co., Boston, Mass.		
" 9..	Corn and Grain	45683	" " "	3 "	10	" "		No registered number on bags.
" 9..	Basic Slag A..	45684	" " "	3 "	10	The Cross Fert. Co. Ltd., Sydney, N.S.		
" 9..	Turnip Phosphate.	45685	Mills Eveleigh, Ltd, Sussex, N. B.	3 "	10	Nova Scotia Fert. Co., Halifax, N.S.		
" 10..	Pacific Potato Special.	45686	Toombs & Son, Moncton, N.B.	3 "	10	The Am. Agr. Chem. Co., New York.		
" 10..	Pacific Nobsque Guano for all crops.	45687	" " "	3 "	10	" "		
" 10..	Soluble Pacific Guano.	45688	" " "	3 "	10	" "		
" 10..	Potato Grower	45689	" " "	3 "	10	The Nova Scotia Fert. Co., Halifax, N.S.		



SESSIONAL PAPER No. 14  
FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p. c.		Phosphoric Acid p. c.							
		Total including that of Nitric Acid or ammonia present.	Total calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.	Potash.		
<i>Concluded.</i>											
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
488	As guaranteed	2.4	3.0	4.0	2.0	1.0	7.0	6.0	10.0	45670	Meets guarantee.
	As found.	2.67	3.25	2.25	4.05	1.65	7.95	6.50	10.5		
489	As guaranteed	1.6	2.0	6.0	2.0	1.0	9.0	8.0	10.0	45671	"
	As found.	2.03	2.47	3.75	3.75	0.5	10.00	9.5	12.51		
2	As guaranteed	2.0	2.5	6.0	2.0	1.0	9.0	8.0	1.0	45672	"
	As found.	1.8	2.19	4.15	4.25	1.20	9.65	8.40	2.80		
190	As guaranteed	2.47	3.0	4.0	2.0	1.0	7.0	6.0	5.0	45673	"
	As found.	2.25	2.75	4.50	1.90	0.85	7.25	6.40	5.13		
36	As guaranteed	...	4.0			2.0	8.0	6.0	10.0	45674	"
	As found.	2.87	3.49	1.45	7.00	0.70	9.70	9.65	12.40		
41	As guaranteed	2.0	2.5			2.0	8.0	6.0	10.0	45675	"
	As found.	1.68	2.04			1.5	8.35	6.85	10.14		
133	As guaranteed	1.64	2.0	4.0	3.0	1.0	8.0	7.0	4.0	45676	"
	As found.	1.85	2.28	6.25	1.10	3.05	10.40	7.35	4.84		
10	As guaranteed	2.47	3.0	4.0	2.0	1.0	7.0	6.0	10.0	45677	"
	As found.	3.09	3.75	3.20	4.20	1.2	8.65	7.40	11.22		
201	As guaranteed	3.20	4.0	4.0	2.0	1.0	7.0	6.0	10.0	45678	"
	As found.	3.16	3.84	4.40	4.80	0.90	10.10	9.6	10.81		
8	As guaranteed	2.47	3.0	4.0	2.0	1.0	7.0	6.0	10.0	45679	"
	As found.	2.14	2.60	3.90	3.65	1.25	8.80	7.75	10.81		
498	As guaranteed	2.47	3.0	3.0	3.0	1.0	7.0	6.0	10.0	45680	"
	As found.	2.62	3.14	3.00	2.45	1.45	7.50	6.65	9.90		
71	As guaranteed	...	2.0				7.0		4.0	45681	"
	As found.	2.66	3.06				7.30		4.88		
134	As guaranteed	0.82	1.0	4.0	3.0	1.0	8.0	7.0	1.0	45682	"
	As found.	0.83	1.00	6.25	1.40	1.35	8.00	7.65	1.62		
(132)	As guaranteed	1.22	1.5	4.0	3.0	1.0	8.0	7.0	2.0	45683	"
	As found.	1.95	2.37	7.05	1.95	1.60	10.65	9.60	5.05		
557	As guaranteed				12.8					45684	"
	As found.				14.88	1.12	16.00	14.88			
34	As guaranteed	....	2.0			2.0	7.0	5.0	4.0	45685	"
	As found.	1.79	2.16	5.95	1.35	0.95	8.25	7.30	4.28		
15	As guaranteed	2.0	2.50	6.0	2.0	1.0	9.0	8.0	3.0	45686	"
	As found.	2.0	2.53	6.30	2.80	2.00	11.10	9.10	3.43		
16	As guaranteed	1.0	1.25	6.0	2.0	1.0	9.0	8.0	2.0	45687	"
	As found.	1.34	1.23	7.05	2.35	1.75	11.15	9.40	2.58		
14	As guaranteed	2.06	2.5	6.0	2.0	1.0	9.0	8.0	1.5	45688	"
	As found.	1.86	2.25	6.00	2.60	3.35	11.95	8.60	2.16		
452	As guaranteed		2.0				7.0		2.0	45689	"
	As found.	1.62	1.97				11.2		2.35		



Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF QUEBEC

1912.								
April 16	Fertilizer.	37433	F. C. Marquis, Rue Gayard, Quebec.			C. Marquis.		Not registered.
" 18		37434	N. Vezina, Limo-lou.			Anglo. Can. Chem. Co., St. John, N. B.		
" 19		37435	P. T. Legare, Quebec.			Michigan Carbon Works.		
" 19		37436				"		
" 19		37437				T. F. Higginson, Buckingham.		
" 19		37438				"		
" 19		37439				"		
" 19		37440				"		
" 19		37441				"	Michigan Carbon.	
" 19		37442				"		
" 20		37443	Eugene Julien, St. Malo, Quebec.			Nitrate Agency Co., New York	Mfrs.	
" 20		37444	"			"	"	
" 20		37445	"			Nitrate Agency Co., New York	"	
" 20		37446	"			Am. Agr. Chem. Co., Buffalo.		
" 20		37447	"			"		
" 20		37448	"			Leeds Phosphate Wks., England	Mfrs.	
" 26		37449	Geo. Tanguay, Quebec.			Vendor.		Capital.
" 26		37450	"			"		Jupiter.
" 26		37451	"			"		Phoenix.
" 26		37452	"			"		Monarch.
" 26		37453	"			"		Union.



SESSIONAL PAPER No. 14  
FERTILIZERS AS SOLD.

Registration Number	Analysis of Sample	Results of Analysis.								Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid p.c.						
		Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia.	Soluble in Water.	Reverted or Citric Soluble.	Insoluble.	Total.	Total Available.	Potash.	
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	
.....	As guaranteed									37433 Not a fertilizer.
(1)	As found.	5.00	6.97	0.00		3.25	15.75	13.30		37434
	As guaranteed						15.0			Meets guarantee.
	As found.						20.95			
212	As guaranteed		2.0				8.0		10.0	37435
	As found.	1.74	1.87	7.86	2.20	1.80	11.80	10.0	10.00	
207	As guaranteed	1.05	2.0				9.0	8.0	4.0	37436
	As found.	1.78	2.15	6.00	2.85	1.00	11.50	9.70	4.00	
83	As guaranteed		2.0				7.0		3.0	37437 L. ...
	As found.	0.20	2.24				10.00		3.10	nia—but excess phosphoric acid.
84	As guaranteed		4.0				9.0		1.0	37438
	As found.	3.95	4.80				11.90		1.20	Meets guarantee.
337	As guaranteed			7.0						37439
	As found.			7.05						
86	As guaranteed		2.0				6.0		2.0	37440
	As found.	2.12	2.53			3.85	10.10	6.20	2.00	
81	As guaranteed							11.5		37441
	As found.					1.00	11.9	10.9		
206	As guaranteed		2.0				8.0		4.0	37442
(1)	As found.	1.90	2.31	6.95	2.80	2.15	11.90	9.75	4.51	
255	As guaranteed	15.0	18.0							37443
	As found.	15.68	19.04							
258	As guaranteed								48.0	37444
	As found.								48.30	.....
257	As guaranteed								50.0	37445
	As found.								51.15	.....
335	As guaranteed	0.82	1.0	4.0	2.0	1.0	7.0	6.0	6.0	37446
	As found.	0.77	0.94	8.55	0.25	2.85	11.55	8.70	5.88	
226	As guaranteed	2.06	2.3	6.0	2.0	1.0	9.0	8.0	3.0	37447
	As found.	2.25	2.73	7.80	1.25	2.80	11.85	9.05	3.92	
253	As guaranteed						18.0			37448
	As found.						21.35			
511	As guaranteed	4.0	5.0					8.0	6.0	37449
	As found.	4.51	5.47			1.20	11.40	10.20	6.19	
510	As guaranteed	2.06	2.50					8.0	5.0	37450
	As found.	2.13	2.58			1.10	12.85	11.75	6.18	
548	As guaranteed	2.47	3.0		6.0			6.0	7.0	37451
	As found.	3.07	3.73			0.45	9.70	9.25	7.96	
508	As guaranteed	1.0	1.22					9.0	8.0	37452
	As found.	1.25	1.52			1.25	13.80	12.55	8.09	
507	As guaranteed	2.47	3.0					8.0	3.5	37453
	As found.	2.93	3.55			1.10	11.55	10.45	3.68	

F. X. W. E. BÉLAND, INSPECTOR



Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF QUEBEC—

1912.								
April 26	Fertilizer. ....	37454	Geo. Tanguay, Quebec.	.....	.....	Vendor..	.....	Nestor .....
" 26	" .....	37455	" ..	.....	.....	" .....	.....	Celtic ..
" 26	" .....	37456	" ..	.....	.....	" .....	.....	.....
" 24	" .....	37457	J. B. Reneaud & Cie, Quebec.	.....	.....	Windsor Plaster Co., Windsor, N.S.	Mfrs.. ....	Windsor Plaster Co., Windsor, N.S.
" 24	" .....	37458	" ..	.....	.....	" ..	" ..	.....
" 24	" .....	37459	" ..	.....	.....	British Oil and Cake Mills Co.	" ..	.....
" 24	" .....	37460	" ..	.....	.....	" ..	.....	.....
" 24	" .....	37461	" ..	.....	.....	" ..	.....	.....

DISTRICT OF ST. HYACINTHE—

April 15	Tobacco Fertilizer.	39101	A. Desautels, Farnham.	3 jars	.....	Lesage Packing and Fert. Co., Montreal.	.....	.....
" 15	Thomas Phosphate.	39102	" ..	3 "	.....	" ..	.....	.....
" 15	Southern Guano.	39103	A. E. D. Artois & fils, Farnham.	3 "	.....	The Nova Scotia Fert. Co., Montreal.	.....	.....
" 15	Acid Phosphate.	39104	" ..	3 "	.....	" ..	.....	.....
" 15	Potato Grower	39105	" ..	3 "	.....	" ..	.....	.....
" 15	Potato Manure.	39106	Berthiaume & Lanoue, Farnham	3 "	.....	Prov. Chem. and Fert. Co., St. John, N.B.	.....	.....
" 15	Victor Guano.	39107	" ..	3 "	.....	" ..	.....	.....
" 15	Special Potato Phosphate.	39108	" ..	3 "	.....	" ..	.....	.....
" 15	Grain Phosphate	39109	" ..	3 "	.....	" ..	.....	.....
" 16	Dissolved Phosphate.	39110	C. Payne, W. Shefford road, Granby	3 "	.....	Buffalo Fert. Co., Buffalo, N.Y.	.....	.....
" 16	Farmers Choice.	39111	" ..	3 "	.....	" ..	.....	.....
" 16	Bradleys Eclipse Phosphate	39112	" ..	3 "	.....	The Am. Agr. Chem. Co., New York.	.....	.....
" 16	Bradleys X L Superphosphate of Lime	39113	" ..	3 "	.....	" ..	.....	.....



SESSIONAL PAPER No. 14  
FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	RESULTS OF ANALYSIS.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid p. c.							
		Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.	Potash.		

Continued.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
509	As guaranteed	1.65	2.0					8.0	2.5	37454	
	As found.	2.18	2.64			1.05	11.35	10.30	3.05		Meets guar-
512	As guaranteed							10.0	5.0	37455	antee.
	As found.					0.60	12.45	11.85	5.71		
547	As guaranteed				14.0					37456	
	As found.				16.44	0.66	17.10	16.44			
	As guaranteed									37457	Plaster of
	As found.										Paris, con-
											tains no fer-
											tilizer in-
											gredient.
302	As guaranteed				15.4	3.85	19.25			37458	
	As found.				18.60	1.85	20.45	18.60			Meets guar
239	As guaranteed								48.0		antee.
	As found.								47.90	37459	
443	As guaranteed								50.0		
	As found.								49.72	37460	
273	As guaranteed	15.0	18.0								
	As found.	14.74	17.90							37461	

J. C. ROULEAU, INSPECTOR.

448	As guaranteed	1.65	2.0		5.0	1.0	6.0	5.0	5.0		Meets guar
	As found.	1.68	2.04			0.95	8.20	7.25	7.97	39101	antee.
338	As guaranteed					2.0	14.0	12.0			
	As found.				13.84	2.91	16.75	13.84		39102	
46	As guaranteed		2.0			2.0	9.0	7.0	2.5		
	As found.	1.50	1.95			1.40	9.50	8.10	2.63	39103	
328	As guaranteed				14.0	2.0		14.0			
	As found.					0.8	21.0	20.20		39104	
452	As guaranteed		2.0				7.0		2.0		
	As found.	2.42	2.94				10.0		2.51	39105	
70	As guaranteed		2.0				7.0		4.0		
	As found.	1.86	2.24				9.90		5.89	39106	
68	As guaranteed		2.0				7.0		2.5	39107	
	As found.	1.62	1.96				9.80		3.48		
63	As guaranteed		2.5				8.0		6.0	39108	
	As found.	2.55	3.10				10.85		7.14		
67	As guaranteed						12.0		2.0	39109	
	As found.						12.10		2.84		
49	As guaranteed							14.0		39110	
	As found.					1.55	16.90	15.35			
55	As guaranteed		1.0					8.0	5.0	39111	
	As found.	0.81	0.99			1.57	10.90	9.35	6.10		
4	As guaranteed	1.03	1.25	6.0	2.0	1.0	9.0	8.0	2.0	39112	
	As found.	1.13	1.38	4.70	5.10	1.20	11.00	9.80	4.68		
2	As guaranteed	2.0	2.5	6.0	2.0	1.0	9.0	8.0	1.5	39113	
	As found.	2.16	2.63	4.65	4.50	1.30	10.45	9.15	2.00		



Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF ST-HYACINTHE								
1912.								
April 17	Victor Complete Fertilizer.	39114	Whitehead & Co., Waterloo, P.Q.	3 jars.		Capelton Chem. & Fert. Co., Buckingham.		
17	Capelton Fertilizer.	39115	"	3		"		
17	Reliance.	39116	"	3				
17	Pacific Potato Special.	39117	Taylor & Poirier, Waterloo, P.Q.	3		The Am. Agr. Chem. Co., New York.		
" 17	Pacific Guano.	39118	"	3		"		
" 18	Sterling Phosphate.	39119	Vaughan Bros., Magog.	3		Lowell Fert. Co., Boston.		No reg. number on bag.
" 18	Potato Manure	39120	"	3		"		"
" 18	Quebec Special	39121	B. E. Goyette, Magog.	3		Lesage Packing & Fert. Co., Montreal.		
" 18	Corn and Vegetable.	39122	"	3		"		
" 18	Royal Potato Manure.	39123	"	3		"		
" 18	Fish Guano.	39124	A. E. Rolston, Knowlton.	3		Buffalo Fert. Co., Buffalo, N. Y.		
" 18	Bradley's Potato Fertilizer.	39125	J. V. Lytle, Knowlton.	3		The Am. Agr. Chem. Co., New York		
" 18	Alkaline Bone with Potash	39126	"	3				
30	Bowker's Sure Crop Phosphate.	39127	W. Taylor, Windsor Mills Road, Richmond, P.Q.	3		Bowker Fert. Co., Boston.		
30	Bowker's Potato and Vegetable Phosphate.	39128	"	3				
30	Corn Phosphate.	39129	"	3				
30	Superphosphate with Potash.	39130	"	3				
30	Vermont Phosphate.	39132	"	3				
May 1	Royal Canadian.	39133	D. Brunet, Roug. St-Germain, Roxton Falls.	3		Capelton Chem. & Fert. Co., Buckingham.		
	1 Thomas Phosphate.	39134	"	3		The Cross Fert. Co., Ltd., Sydney, N.S.		
	1 Phosphate of Lime 39%.	39135	J. Baubertin, Roug. St-Germain, Roxton Falls.	3		Leeds Phosphate Works, Leeds, Eng.		



SESSIONAL PAPER No. 14  
FERTILIZERS AS SOLD.

Registration Number	Analysis of Sample.	Results of Analysis.										Remarks and Opinion of the Chief Analyst
		Nitrogen p.c.			Phosphoric Acid p.c.							
		Total including that of Nitric Acid or ammonia if present	Total calculated as Ammonia	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble	Total.	Total available.	Potash	Superphosphate		
<i>Continued.</i>												
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
83	As guaranteed		2.0				7.0		3.0	39114	Meets guarantee.	
	As found.	2.13	2.59				10.95		3.10			
337	As guaranteed							7.0		39115		
	As found.			0.70			12.05					
86	As guaranteed	2.0						6.0	2.0	39116		
	As found.	2.95	3.58			1.95	10.70	8.75	4.17			
15	As guaranteed	2.06	2.50	6.0	2.0	1.0	9.0	8.0	3.0	39117		
	As found.	2.15	2.61	7.10	1.80	0.85	9.75	8.90	3.38			
14	As guaranteed	2.06	2.50	6.0	2.0	1.0	9.0	8.0	1.0	39118		
	As found.	1.82	2.21	5.00	1.70	1.80	11.50	9.70	2.12			
372	As guaranteed	0.82	1.0	4.0	4.0	1.0	9.0	8.0	4.0	39119		
	As found.	1.83	2.23	6.10	3.15	1.00	10.35	9.35	5.45			
405	As guaranteed	1.64	2.0	4.0	3.0	1.0	8.0	7.0	4.0	39120		
	As found.	1.06	1.23	6.80	3.15	2.00	11.95	9.45	1.90			
331	As guaranteed	1.0	1.25		5.0	1.0	6.0		3.0	39121		
	As found.	0.91	1.11	6.25	0.05	0.65	6.95	6.10	3.63			
447	As guaranteed	1.65	2.0		5.0	1.0	6.0	5.0	5.0	39122		
	As found.	1.50	1.82		7.15	0.30	7.55	7.15	5.62			
449	As guaranteed	2.47	3.0		5.0	1.0	6.0	5.0	10.0	39123		
	As found.	2.44	2.92			1.30	8.50	7.20	11.00			
53	As guaranteed		1.0					9.0	2.0	39124		
	As found.	0.90	1.09			2.15	13.00	10.85	2.53			
3	As guaranteed	2.06	2.50	6.0	2.0	1.0	9.00	8.0	3.0	39125		
	As found.	1.92	2.33	8.30	3.10	1.40	13.20	11.80	2.63			
23	As guaranteed			9.0	2.0	1.0	12.0	11.0	2.0			
	As found.			8.70	1.85	1.90	12.45	10.75	2.05	39126		
97	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	2.0			
	As found.	0.90	1.16	6.70	2.75	1.80	11.25	9.45	2.18	39127		
92	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	2.0			
	As found.	1.82	2.21	9.0	5.05	2.05	14.10	12.05	2.54	39128		
93	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	2.0			
	As found.	1.71	2.08	7.50	2.15	2.25	11.90	9.65	3.03	39129		
99	As guaranteed			6.0	4.0	1.0	11.0	10.0	2.0			
	As found.			9.25	3.15	2.0	14.40	12.40	2.78	39130		
91	As guaranteed	2.47	3.0	6.0	2.0	1.0	9.0	8.0	4.0			
	As found.	2.61	3.17	7.0	3.10	1.55	11.65	10.10	3.98	39132		
84	As guaranteed		4.0				9.0		5.0			
	As found.	3.90	4.74			1.45	11.05	9.60	4.75	39133		
591	As guaranteed				13.6							
	As found.				15.20	0.65	15.85	15.20		39134		
253	As guaranteed						18.0					
	As found.						20.65			39135		



Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF ST. HYACINTHE—

1912.								
May	1 Sterling Phosphate.	39136	McGrail & Massé, Roxton Falls.	3 jars.	...	Swift's Lowell Fert. Co., Boston.		
"	1 Bone Fertilizer	39137	"	3 "	...	"		No reg. number
"	2 Jupiter.....	39138	J. E. Beliveau, St. Leonard Jct.	3 "	...	Geo. Tanguay, Quebec.		Qualité autorisée No. 1.
"	3 Complete Fertilizer.	39139	P. T. Legare, Victoriaville.	3 "	...	Mich. Carbon Works, Buffalo		
"	3 Fruit and Vine	39140	"	3 "	...	"		
"	3 Homestead Dissolved Bone.	39141	P. T. Legare, Victoriaville.	3 "	...	"		
"	3 Potash Bone..	39142	F. Mahew, Arthabakville.	3 "	...	Bowker Fert. Co., Boston.		
"	6 Virginia Tobacco.	39143	P. T. Legare, St. Hyacinthe.	3 "	...	Michigan Carbon Wks., Buffalo.		

DISTRICT OF MONTREAL—

April 2	radley B...	50801	Dupuy and Ferguson, Jac. C. Square, Montreal	3 "	...			
"	2 Union. Potato and Tobacco.	50802	Wm Cooper & Co., 38 St. James St., Montreal.	3 "	...	Lesage Packing and Fert. Co., Ltd.		
"	2 Crocker's New General Crop	50803	Lepailleur & Frere, Lachine, P.Q.	3 "	...			Tags were mislaid and reg. No. did not appear on bags.
"	25 Crocker's Complete Manure	50804	"	3 "	...			"
"	26 Victor..	50805	O. Goulet & fils, St. Jacques.	3 "	...	Capelton Chem. and Fert. Co.,		
"	26 Victor Guano	50806	A. Melanson, St. Jacques.	3 "	...	Provincial Chem. an Fert. Co., Ltd.		
"	26 Victor.....	50807	E. Laurion, L'Esplanade, P.Q.	3 "	...	Capelton Chem. and Fert. Co.,		
May	7 Montreal Special Potato Manure.	50808	Montreal Abattoir Ltd., Montreal.	3 "	...	Vendeurs.....		
"	7 Crop Producer	50809	"	3 "	...	"		
"	7 Early Truck and Vegetable Grower	50810	"	3 "	...	"		
"	Gilt Edge Potato and Tobacco Manure	50811	"	3 "	...	"		



SESSIONAL PAPER No. 14  
FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	RESULTS OF ANALYSIS.							No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid p.c.						
		Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.		

Concluded.

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
372	As guaranteed	0.82	1.0	4.0	4.0	1.0	9.0	8.0	4.0		
	As found.	0.92	1.12	7.50	2.70	2.0	12.20	10.20	4.11	39136	Meets guarantee.
1113	As guaranteed	1.64	2.0	4.0	4.0	1.0	9.0	8.0	3.0		
	As found.	1.60	1.95	6.50	2.85	1.05	10.40	9.35	3.47	39137	"
1510	As guaranteed	2.06	2.5					8.0	5.0	39138	
	As found.	2.31	2.87	7.00	2.60	2.00	11.60	9.60	6.18		
206	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	39139	
	As found.	1.77	2.15	8.05	1.90	1.45	11.40	9.95	4.59		
212	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	10.0		
	As found.	1.80	2.19	6.60	2.95	1.95	11.40	9.55	10.52	39140	
202	As guaranteed			10.0	2.0	1.0	13.0	12.0		39141	
	As found.			10.00	3.65	2.25	16.10	13.25			
98	As guaranteed	0.82	1.0	4.0	2.0	1.0	7.0	6.0	2.0	39142	
	As found.	0.93	1.13	6.25	2.40	1.25	9.90	8.65	2.55		
207	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0	39143	
	As found.	1.60	2.01	8.95	1.05	1.95	11.95	10.00	6.33		

J. J. COSTIGAN, INSPECTOR.

259	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	4.0	50801	
	As found.	0.99	1.20	7.00	3.30	1.90	12.20	10.30	5.33		Meets guarantee.
162	As guaranteed	1.65	2.0		7.0	1.0	8.0		5.0	50802	
	As found.	1.26	1.53			3.0	9.65	6.65	4.09		
1301	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	1.0	50803	
	As found.	1.13	1.37	6.95	1.20	3.15	11.30	8.15	1.64		
193	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	4.0	50804	
	As found.	1.14	1.38	7.30	2.50	2.60	12.40	9.80	3.84		
83	As guaranteed		2.0				7.0		3.0	50805	
	As found.	1.68	2.04				11.20		3.34		
68	As guaranteed		2.0				7.0		2.5	50806	
	As found.	1.78	2.16				10.0		4.26		
83	As guaranteed		2.0				7.0		3.0	50807	
	As found.	1.71	2.07				11.80		3.51		
556	As guaranteed		1.0					8.0	5.0	50808	
	As found.	1.14	1.38		10.10	1.55	11.65	10.10	4.71		
554	As guaranteed		1.25					10.0		50809	
	As found.	1.16	1.40			3.60	14.15	10.55			
553	As guaranteed		4.0					6.0	8.0	50810	
	As found.	3.14	3.81			1.50	10.45	8.95	8.57		
555	As guaranteed		3.0					7.0	10.0	50811	
	As found.	2.70	3.28			1.35	10.30	8.95	10.26		



Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF MONTREAL—

1912.								
May 11	Celery and Potato.	50812	Thos. Cogland, Herdman, P.Q.	3 jars.		Bowker Fert. Co.		
" 11	Fish Guano.	50813	" "	3 "		" "		
" 11	Ideal Wheat and Corn.	50814	" "	3 "		" "		
" 11	Farmer's Choice.	50815	" "	3 "		" "		
" 14	Alkaline Bone with Potash.	50816	Wm. Anderson, Athelstan, P.Q.	3 "				
" 14	Bradley B....	50817	" "	3 "		Am. Agr. Chem. Co.		
" 14	Milsoms Special Bean and Grain.	50818	" "	3 "				
" 17	Complete.....	50819	Moise Dubois, St. Thérèse De Blainville, P.Q.	3 "		Mich Carbon Works.		
" 17	Garden and Vegetable.	50820	" "	3 "				
" 17	Bowker's Superphosphate with Potash.	50821	Alex. MacCubbin, St. Thérèse De Blainville, P.Q.	3 "		Bowker Fert. Co.		

DISTRICT OF OTTAWA

April 16	Capelton No. 1	49085	The Capelton Chem. Fert. Co., Buckingham.	3 jars.	Nil.	Vendors...		
" 16	Royal Canadian.	49086	" "	3 "	"	"		
" 16	Potato Special	49087	" "	3 "	"	"		
" 16	Eureka Tobacco Special.	49088	" "	3 "	"	"		
" 16	Victor.....	49089	" "	3 "	"	"		
" 16	Reliance..	49090	" "	3 "	"	"		
" 16	Bradley's New Method.	49091	H. Brown & Sons, Brockville.	3 "	"	Am. Agr. Chem. Co., New York		
" 16	Bradley's B.D. Sea Fowl Guano.	49092	" "	3 "	"	"		
" 16	Sure Growth..	49093	Booth Bros., Brockville.	3 "	"	The W. A. Freeman, Co., Ltd., Hamilton.		
" 16	Pure Bone Meal.	49094	" "	3 "	"	"		
" 16	Potato Manure	49095	" "	3 "	"	"		
" 16	Canadian Manure.	49096	" "	3 "	"	"		



SESSIONAL PAPER No. 14  
FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample	Number of Sample.	RESULTS OF ANALYSIS.								Remarks and Opinion of the Chief Analyst.
			Nitrogen p. c.		Phosphoric Acid p. c.						
			Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.	

Continued.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
57	As guaranteed		2.0					8.0	10.0	50812	Meets guarantee.
	As found.	1.01	1.22			2.45	11.95	9.50	8.95		
53	As guaranteed		1.0					9.0	2.0	50813	
	As found.	1.02	1.24			2.05	12.00	9.95	3.70		
56	As guaranteed		2.0					9.5	5.0		
	As found.	1.08	2.04			2.15	13.60	11.45	6.81	50814	
55	As guaranteed		1.0					8.0	5.0		
	As found.	0.99	1.20			2.25	11.55	9.30	1.90	50815	
578	As guaranteed			6.0	2.0	1.0	12.0	11.0	2.0		
	As found.			6.80	4.20	1.05	13.05	14.0	3.00	50816	
59	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	4.0		
	As found.	0.89	1.09	7.00	2.25	1.40	10.75	9.25	5.21	50817	
263	As guaranteed			8.00	2.0	1.0	11.0	10.0	8.0		
	As found.			9.40	1.75	1.50	12.65	16.75	8.56	50818	
90	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	4.0		
	As found.	1.84	2.24	8.50	2.20	2.25	12.95	9.70	4.40	50819	
210	As guaranteed	1.65	2.0	6.0	2.0	1.0	9.0	8.0	6.0		
	As found.	1.61	1.96	7.75	1.05	2.50	11.30	8.80	7.36	50820	
602	As guaranteed			6.0	4.0	1.0	11.0	10.0	2.0		
	As found.			8.20	4.50	2.60	15.10	12.50	2.10	50821	

J. A. RICKEY, INSPECTOR.

81	As guaranteed							16.0		49085	Meets guarantee.
	As found.					6.35	16.00	9.65			
84	As guaranteed		4.0					9.0	5.0	49086	
	As found.	3.88	4.71					11.25	6.04		
336	As guaranteed		2.0					6.0	8.0	49087	
	As found.	2.40	2.91			3.65	10.10	6.45	8.03		
85	As guaranteed		3.0					5.0	4.0	49088	
	As found.	2.67	3.25			3.50	8.65	5.15	5.0		
83	As guaranteed		2.0					7.0	3.0	49089	
	As found.	1.74	2.11			3.40	10.50	7.10	3.72		
86	As guaranteed		2.0					6.0	2.0	49090	
	As found.	2.04	2.48					9.55	3.61		
379	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	2.0	49091	
	As found.	1.12	1.36	4.90	1.50	2.25	11.65	9.40	2.68		
88	As guaranteed	2.0	2.5	6.0	2.0	1.0	9.0	8.0	1.5	49092	
	As found.	2.31	2.81	7.50	1.75	2.55	11.80	9.25	2.39		
144	As guaranteed	2.80	3.5	5.0	3.0	0.25	8.25	8.0	3.0	49093	
	As found.	3.69	4.48	4.0	5.15	3.80	12.95	9.15	3.44		
146	As guaranteed	2.47	3.0		20.0	1.0	21.0	20.0		49094	
	As found.	4.27	5.19		11.04	10.09	21.15	11.04			
145	As guaranteed	2.47	3.0	5.0	3.0	0.25	8.25	8.0	5.0	49095	
	As found.	4.48	5.44	4.60	3.95	3.35	12.90	9.55	6.08		
375	As guaranteed	2.47		5.5	2.5	0.50	8.5	8.0	1.5	49096	
	As found.	1.92	2.33	6.55	4.50	3.75	13.80	10.05	2.81		



Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF OTTAWA—

1912.								
April 16	Read's Standard Superphosphate.	49097	A. E. Cameron, Brockville.	3 jars.	Nil.	Am. Agr. Chem. Co., N.Y.		
" 16	Read's Practical Potato Special.	49098	"	3 "	"	"		
" 16	Read's High Grade Special.	49099	"	3 "	"	"		
" 16	Read's Farmers Friend Superphosphate.	49100	"	3 "	"	"		
" 17	Corn Special..	50190	Capelton Chem. & Fert Co., Buckingham.	3 "	"	Vendors..		
" 17	Capelton..	50191	"	3 "	"	"		
" 19	Lawn.....	50192	"	3 "	"	"		
" 10	Lawn Fertilizer.	50193	Graham Bros., Ottawa.	3 "	"	The W. A. Freeman Co., Ltd., Hamilton.		No. reg. number on bags.
" 19	Bradley's Complete Manure	50194	"	3 "	"	Am. Agr. Chem. Co.		
" 19	Celery & Early Vegetable Manure.	50195	K. McDonald & Sons, Ottawa.	3 "	"	W. A. Freeman Co., Ltd. Hamilton.		

DISTRICT OF TORONTO—

April 15	Harab No. 5 A "Orchard" Brand.	49401	The Harris Abattoir Co., Ltd., Toronto.	4 lbs.	15	Vendors.		
" 15	Harab No. 4 A "Berry" Brand.	49402	"	4 "	15	"		
" 15	Harab No. 13 A Beet (Sugar).	49403	"	4 "	15	"		
" 15	Harab A No. 7, Potash Compound.	49404	"	4 "	15	"		
" 16	Harab A No. 6, "Cereal" Brand.	49405	"	4 "	15	"		
" 16	Harab A No. 12, Beans Brand.	49406	"	4 "	15	"		



SESSIONAL PAPER No. 14  
FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	RESULTS OF ANALYSIS.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid p.c.							
		Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia.	Soluble in water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.		

Concluded.

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
383	As guaranteed	0.82	1.0	6.0	2.0	1.0	9.0	8.0	4.0	49097	Meets guarantee.
	As found.	0.80	0.97	6.70	2.70	1.95	11.35	9.40	4.11		
382	As guaranteed	0.82	1.0	3.0	1.0	1.0	5.0	4.0	8.0	49098	
	As found.	1.04	1.27	3.5	1.6	1.45	6.55	5.10	7.74		
232	As guaranteed			10.0	2.0	1.0	13.0	12.0	6.0	49099	
	As found.			11.10	1.13	0.92	13.15	12.23	6.16		
384	As guaranteed	2.0	2.5	6.0	2.0	1.0	9.0	8.0	3.0	49100	
	As found.	2.10	2.55	6.15	2.80	2.05	11.0	8.95	3.14		
82	As guaranteed		1.0					7.0	3.0	50190	
	As found.	1.45	1.77				11.15		4.03		
337	As guaranteed							7.0		50191	
	As found.					1.35	11.75	7.40			
484	As guaranteed		2.0					6.0	8.0	50192	
	As found.	1.81	2.20			3.30	10.65	6.75	8.68		
(157)	As guaranteed		3.0				9.0		4.0	50193	
	As found.	3.23	3.92				10.85		6.20		
394	As guaranteed	3.0	4.0	6.0	2.0	1.0	9.0	8.0	7.0	50194	
	As found.	2.14	2.60	9.75	2.55	0.50	12.80	12.30	8.56		
184	As guaranteed	4.12	5.0	5.5	3.5	0.25	9.25	9.0	5.0	50195	
	As found.	4.91	5.96	4.05	3.80	2.20	10.05	7.85	7.93		

H. J. DAGER, INSPECTOR.

475	As guaranteed	2.0					4.0		5.0	49401	Meets guarantee.
	As found.	2.32	2.81				7.50		6.89		
474	As guaranteed	2.0					7.0		5.0	49402	
	As found.	1.75	2.13				9.30		5.56		
481	As guaranteed	3.0					7.0		8.0	49403	
	As found.	2.39	2.91				7.65		8.00		
476	As guaranteed	2.0					7.0		8.0	49404	
	As found.	1.83	2.23				8.35		7.60		
201	As guaranteed	2.0	2.4				12.5	9.0	3.0	49405	
	As found.	3.71	4.50			3.63	11.26	7.63	5.15		
480	As guaranteed	2.0					8.0		8.0	49406	
	As found.	1.97	2.39				10.65		10.80		



Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF TORONTO—

1912.								
April 16	Harab A No. 9, Blood and Beef.	49407	The Harris Abattoir Co., Ltd., Toronto.	4 lbs.	15	Vendors.		
" 16	Harab A No. 1, Potash Special.	49408	"	4 "	15	"		
" 16	Harab A, General Garden.	49409	"	4 "	15	"		
" 16	Harab A No. 15, "Corn" Brand.	49410	"	4 "	15	"		
" 16	Davies' Potato Special.	49411	Wm. Davies Co., Ltd., Toronto.	4 "	15	"		
" 16	Davies' General Crop.	49412	"	4 "	15	"		
" 16	Davies' Pure Bone Meal.	49413	"	4 "	15	"		
" 16	Davies' Blood Meal.	49414	"	4 "	15	"		
" 17	Davies' General Veg. and Market Garden.	49415	"	4 "	15	"		
" 17	Davies Tobacco Grower.	49416	"	4 "	15	"		
" 17	Davies Sugar Beet Manure.	49417	"	4 "	15	"		
" 17	Davies Greenhouse Special	49418	"	4 "	15	"		
" 19	Davies Soluble Bone and Potash.	49419	"	4 "	15	"		
" 19	Davies Complete Manure for Roots	49420	"	4 "	15	"		
" 19	Davies Lawn Dressing.	49421	"	4 "	15	"		
" 19	Davies Cereal Fertilizer.	49422	"	4 "	15	"		
" 19	H. Brand.	49423	Wm. Harris & Co., Toronto.	4 "	15	"		Sample taken from quantity in storage room.
" 22	Sure Growth Manure.	49424	Wm. A. Freeman Co., Ltd., Hamilton.	4 "	15	"		
" 22	Potato Manure	49425	"	4 "	15	"		



SESSIONAL PAPER No. 14  
FERTILIZERS AS SOLD.

Registration Number.	Analysis	Results of Analysis.										Remarks and Opinion of the Chief Analyst.
		Nitrogen p. c.		Phosphoric Acid								
		Total in solution	Total in Acid or other solution	Soluble in Water	Reduced to Citric Soluble.	Insoluble	Insoluble	Insoluble	Insoluble	Insoluble		
477	As guaranteed	7.25					6.0				49407	Low in nitrogen content phosphoric acid solution
	As found.	7.25	6.41				8.30					
471	As guaranteed	3.0					6.0		8.0		49408	Meets guarantee
	As found.	2.24	2.72				8.0		8.0			
472	As guaranteed	3.0					7.0		3.0		49409	
	As found.	3.20	3.80				8.70		3.48			
483	As guaranteed	2.0					9.0		1.0		49410	
	As found.	2.30	2.80				10.50		3.20			
360	As guaranteed	3.3	4.0	1.0	5.0	2.0	8.0	6.0	8.0		49411	
	As found.	3.67	4.45	3.10	3.30	1.20	9.60	8.40	8.22			
249	As guaranteed	2.47	3.0				10.0	8.0	2.0		49412	
	As found.	2.31	2.81			1.30	11.85	10.00	4.87			
244	As guaranteed	3.20	4.0				20.0				49413	
	As found.	3.08	3.74				25.40					
371	As guaranteed	11.51	14.0								49414	
	As found.	10.72	13.02									
362	As guaranteed	4.11	5.0	1.0	6.0	2.0	9.0	7.0	5.0		49415	
	As found.	5.02	6.20	1.65	12.28	4.40	16.07	13.93	4.87			
368	As guaranteed	4.11	5.0	1.0	6.0	2.0	9.0	7.0	6.0		49416	
	As found.	5.77	4.58	1.00	11.10	1.00	14.30	12.70	3.78			
370	As guaranteed	3.3	4.0	1.0	5.0	2.0	8.0	6.0	8.0		49417	
	As found.	4.01	5.48	1.25	7.70	1.00	10.85	8.95	9.98			
367	As guaranteed	4.11	5.0	5.0		0.5	5.5	5.0	5.0		49418	
	As found.	5.87	4.70	2.50	4.85	1.89	9.25	7.36	4.79			
369	As guaranteed	1.64	2.0	3.0	5.0	2.0	10.0	8.0	5.0		49419	
	As found.	1.81	2.20	3.65	4.85	2.05	10.55	8.50	4.00			
365	As guaranteed	2.88	3.5	3.0	5.0	2.0	10.0	8.0	6.0		49420	
	As found.	2.77	3.36	2.50	5.30	3.05	10.85	7.80	6.60			
361	As guaranteed	3.3	4.0	1.0	5.0	2.0	8.0	6.0	3.0		49421	
	As found.	5.04	7.33	1.20	5.30	3.10	9.60	6.50	4.56			
364	As guaranteed	2.06	2.5	6.0	3.0	2.0	11.0	9.0	2.0		49422	
	As found.	1.76	2.13	3.30	5.50	5.35	14.15	8.80	1.91			
(285)	As guaranteed	7.15	8.69	0.67	3.90	2.74	7.31	4.57			49423	
	As found.	6.91	8.40	0.56	8.19	1.75	10.50	8.75				
144	As guaranteed	2.89	3.5	5.0	3.0	0.25	8.25	8.0	3.0		49424	
	As found.	2.03	2.47	4.55	5.15	3.30	13.00	9.70	4.11			
145	As guaranteed	2.47	3.0	5.0	3.0	0.25	8.25	8.0	5.0		49425	
	As found.	2.07	2.51	4.40	4.45	2.80	11.67	8.85	5.13			



Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF TORONTO—

1912.								
April 22	Lawn Fertilizer.	49426	Wm. A. Freeman Co., Ltd., Hamilton.	4 lbs.	15	Vendors.		
" 22	Bone and Potash.	49427	" " "	4 "	15	"		
" 23	Bradleys B. D. Sea Foul Guano.	49428	Titterington Bros., St. Catherines.	4 "	15	Am. Agr. Chem. Co., Buffalo.		
" 23	Crockers, N. Y., Special Phosphate.	49429	" " "	4 "	15	"		
" 23	Complete Manure for Potatoes and Vegetables.	49430	" " "	4 "	15	"		
" 23	Crockers Best Potash.	49431	Titterington Bros., St. Catharines.	4 "	15	Am. Agr. Chem. Co., Buffalo.		
" 23	Fine Ground Bone.	49432	St. Catharines Cold Storage & Forwarding Co. Ltd. St. Catharines.	4 "	15	Am. Agr. Chem. Co., New York		
" 23	Fine Steamed Bone.	49433	" "	4 "	15	Wm. Davies Co., Ltd., Toronto.		
" 25	Crocker's Wheat & Corn Fertilizer.	49434	O. J. Smith, Attercliffe Stn.	4 "	15	Am. Agr. Chem. Co., Buffalo, N. Y.		
" 25	Crockers Complete Manure	49435	" "	4 "	15	"		
" 25	Crockers Practical Potato Fertilizer.	49436	" "	4 "	15	"		
" 15	Crockers High Grade Special Fertilizer.	49437	" "	4 "	15	"		
" 25	National Fertilizer No. 1 Brand.	49438	J. W. Emerson, Attercliffe Stn.	4 "	15	The National Land Fruit Packing Co., Montreal.		Noreg. number on bags.
" 25	Farmer's Choice.	49439	B. L. Edgecombe, Dunnville.	4 "	15	Buffalo Fert. Co. Buffalo, N. Y.		
" 25	Celery & Potato Special.	49440	" "	4 "	15	"		
" 25	Vegetable & Potato.	49441	" "	4 "	15	"		
" 25	General Favourite.	49442	" "	4 "	15	"		
" 25	Fish Guano...	49443	" "	4 "	15	"		
" 25	Ideal Wheat & Corn.	49444	" "	4 "	15	"		
" 25	Celery & Early Vegetable Manure.	49445	J. E. Bell, Cooksville.	4 "	15	Wm. A. Freeman Co., Ltd. Hamilton.		
" 30								



SESSIONAL PAPER No. 14

FERTILIZERS AS SUCH

Registration Number.	Analysis of Sample.	RESULTS OF ANALYSIS								No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen, p.c.		Phosphoric Acid, p.c.							
		Total including that of Nitric acid or ammoniacal present.	Total calculated as Ammonia.	Soluble in water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.	Potash.		

Continued.

				p. c.	p. c.	p. c.	p. c.	p. c.	
127	As guaranteed	2.47	3.0	5.5	3.5	0.25	9.25	9.0	Meets guarantee.
	As found.	2.39	2.91	6.00	6.10	1.00	13.10	12.10	
147	As guaranteed	1.02	2.0	5.5	3.5	0.25	9.25	9.0	
	As found.	2.12	2.58	5.32	4.35	3.45	13.15	9.70	
188	As guaranteed	2.08	2.5	6.0	2.0	1.0	9.0	8.0	4939
	As found.	2.42	2.61	6.40	3.95	2.55	12.85	10.35	
192	As guaranteed			8.0	2.0	1.0	11.0	10.0	4940
	As found.			8.55	4.65	1.15	14.35	13.20	
194	As guaranteed	3.29	4.0	6.0	2.0	1.0	9.0	8.0	4941
	As found.	3.41	3.03	6.75	3.0	1.00	12.2	10.5	
194	As guaranteed	1.02	2.0	6.0	2.0	1.0	9.0	8.0	49431
	As found.	1.25	1.46	6.00	2.65	2.10	11.6	9.55	
238	As guaranteed	2.47	3.0				22.88		4942
	As found.	2.00	3.63				24.10		
366	As guaranteed	4.93	6.0				22.0		4943
	As found.	4.93	5.98				22.10		
195	As guaranteed	1.06	2.5	6.0	2.0	1.0	9.0	8.0	4944
	As found.	1.58	1.92	8.10	3.30	1.25	12.65	11.00	
189	As guaranteed	0.82	1.00	6.0	2.0	1.0	9.0	8.0	4945
	As found.	0.93	1.13	2.67	1.8	1.8	8.07	6.00	
190	As guaranteed	0.82	1.0	3.0	1.0	1.0	5.0	4.0	4946
	As found.	1.08	1.31	3.50	2.07	1.0	7.65	6.05	
381	As guaranteed	0.67	2.0	6.0	2.0	1.0	9.0	8.0	4947
	As found.	0.67	1.28	7.45	1.05	1.75	11.15	9.40	
691	As guaranteed	0.84		3.5				6.5	4948
	As found.	0.84	2.24	6.15			8.10	1.22	
55	As guaranteed		1.0					8.0	49439
	As found.	1.70	1.43	1.25	3.85	2.35	11.45	9.10	
57	As guaranteed		2.0					8.0	49440
	As found.	2.23	2.71			1.70	11.00	9.50	
58	As guaranteed		3.0					8.0	49441
	As found.	1.22	2.70			1.65	10.80	9.15	
54	As guaranteed		1.5					8.0	49442
	As found.	1.53	1.86			1.60	10.90	9.10	
53	As guaranteed		1.0					9.0	49443
	As found.	1.31	1.09			1.65	11.55	9.70	
56	As guaranteed		2.0					9.0	49444
	As found.	1.87	2.25			1.35	10.85	9.50	
147	As guaranteed	0.67	2.00	5.50	3.50	0.25	9.25	9.00	49445
	As found.	3.43	4.17	4.80	5.75	1.35	11.70	10.35	



Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF TORONTO—

1912.								
April 30	Bradley's Potato Fertilizer.	49446	John Cunningham, Cooksville.	4 lbs.	15	Am. Agr. Chem. Co., Buffalo, N. Y.		
May 1	Garden Truck.	49447	A. H. Spera, Stoney Creek.	4 "	15	Buffalo Fert. Co., Buffalo, N. Y.		
" 1	Dissolved Phosphate.	49448	J. F. Galbraith, Stoney Creek.	4 "	15	"		
" 1	High Grade Manure.	49449	W. Clark, Stoney Creek.	4 "	15	"		
" 3	High Grade Potash Compound.	49450	A. Skook, Oakville	4 "	15	Am. Agr. Chem. Co., Buffalo.		
" 4	High Grade Ground Blood	49500	Geo. Hollis, Shaw st., Toronto.	4 "	15	"		Guaranteed analysis is so indistinct, is not readable.

DISTRICT OF LONDON—

May 7	Farmers Choice.	48253	G. Carter, Son & Co., St. Mary's.	4 jars.	Nil	Buffalo Fert. Co., Buffalo.		
" 7	Wheat and Corn.	48254	"	4 "	"	"		
" 7	Celery and Corn.	48255	"	4 "	"	"		
" 8	Davies Lawn Dressing.	48260	J. T. Eidt, Berlin.	4 "	15	Wm. Davies Co., Toronto.		
" 8	Early Celery and Potato.	48261	I. Holman, Berlin.	4 "	"	Freeman Co., Hamilton.		
" 8	Sure Growth.	48262	"	4 "	20	"		
" 8	Potato Manure	48263	"	4 "	"	"		

DISTRICT OF WINDSOR—

May 2	Sure Growth.	48229	W. W. Nawceck-ville, Ingersoll.	3 jars.	Nil	W. A. Freeman, Hamilton.		
" 2	Potato Manure	48230	"	3 "	"	"		
" 2	XXX Potato.	48231	Wm. Stone & Sons Co., Ingersoll.	3 "	"	Vendors.		
" 2	Grain & Root	48232	"	3 "	"	"		



SESSIONAL PAPER No. 14  
FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	RESULTS OF ANALYSIS.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid p.c.							
		Total including that of Nitric Acid or when not present.	Total calculated as Ammonia.	Soluble in water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.	Potash.		

Continued.

		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
392	As guaranteed	2.06	2.5	6	2	1	9	8	3	4946	Meets guarantee.
	As found.....	2.03	2.47	6.50	0.95	3	10.45	7.45	4.24		
39	As guaranteed		4					8	7	4947	
	As found.....	3.19	3.88			1.65	11.19	9.45	6.80		
49	As guaranteed							14		4948	
	As found.....					1.60	13.25	13.65			
60	As guaranteed		4					7	10	4949	Meets guarantee.
	As found.....	3.12	3.79			1.35	11.15	9.80	11.08		
182	As guaranteed	1.65	2	6	2	1	9	8	10	4950	
	As found.....	1.69	2.05	7.50	0.95	3.15	10.70	7.55	11.01		
1311	As guaranteed	9.87	12							4950	
	As found.....	9.66	11.75	0.95	0.75	0.75	2.45	1.70			

JNO. TALBOT, ACTING INSPECTOR

55	As guaranteed		1					8	5	48253	Meets guarantee.
	As found...	0.87	1.05	5.30	2.45	3.90	11.65	7.75	4.58		
56	As guaranteed		2					9	5	48254	Meets guarantee.
	As found...	1.81	2.20	4.60	3.64	2.86	11.10	8.24	3.97		
57	As guaranteed		2					8	10	48255	Not for sale.
	As found...	1.11	1.34	1.63	4.52	3.60	9.75	6.15	6.80		
361	As guaranteed	3.3	4	1	5	2	8	6	3	48260	Meets guarantee.
	As found.....	3.55	4.06	0.75	7.55	2.20	10.50	8.50	2.63		
148	As guaranteed	4.12	5	5.5	3.5	0.25	9.25	9	5	48261	Meets guarantee.
	As found.....	3.82	4.64	6.15	2.60	2.00	10.75	8.75	6.75		
144	As guaranteed	2.89	3.5	5	3	0.25	8.25	8	3	48262	Meets guarantee.
	As found.....	2.34	2.84	5.10	2.60	4.20	12.00	7.80	2.90		
145	As guaranteed	2.47	3	5	3	0.25	8.25	8	5	48263	Meets guarantee.
	As found.....	2.39	2.90	5	4.30	3.75	13.05	9.30	5.10		

JNO. TALBOT, INSPECTOR.

144	As guaranteed	2.89	3.5	5	3	0.25	8.25	8	3	48229	Meets guarantee.
	As found.....	2.18	2.65	7.45	4.45	2.60	15.50	12.90	2.90		
145	As guaranteed	2.47	3.00	5	3	0.25	8.25	8	5	48241	Meets guarantee.
	As found.....	2.17	2.64	5.10	4.60	3.85	13.55	9.70	4.98		
546	As guaranteed	1.64	2	6.5	1.5	1.25	9.25	8	6	48231	Meets guarantee.
	As found.....	2.05	2.49	7.20	4.30	2.95	14.45	11.50	6.00		
545	As guaranteed	1.64	2	6.5	1.5	1.25	9.25	8	2	48232	Meets guarantee.
	As found.....	2.05	2.49	6.75	3.35	2.20	12.30	10.10	3.20		



Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF WINDSOR—

1912.								
May	2 Garden Truck-ers.	48233	Wm. Stone & Sons Co., Ingersoll.	3 jars.	Nil	Vendors.		
"	2 Bone, Blood and Potash.	48234	"	3 "	"	"		
"	2 Corn, Wheat and Oats.	48235	"	3 "	"	"		
"	3 New York Special.	48241	McIntosh Coal Co., Woodstock.	3 "	"	Crocker Fert. Wks., Buffalo.		
"	Potato Manure	48242	A. Hastings & Son, Woodstock.	3 "	"	W. A. Freeman Co., Ltd., Hamilton.		
"	3 Nitrate of Soda	48243	"	3 "	25	"		
"	3 Homestead Bone Black.	48244	A. Patrick, Woodstock.	3 "	"	Mich. Carbon Wks., Detroit.		
"	6 Tobacco Manure.	48250	Saml. Glenn & Son, Chatham.	3 "	"	Stone Sons, Ltd., Ingersoll.		
"	6 Special Beet Fertilizer.	48251	Jas. D. Soutar, Chatham.	3 "	"	Mich. Carbon Wks., Detroit.		
"	6 Garden and Vegetable.	48252	"	3 "	"	"		
"	9 Bone Meal.	48270	Hewer Seed Co., Guelph.	3 "	10	W. A. Freeman Co., Hamilton.		
"	9 Lawn Dressing.	48271	"	3 "	10	"		
"	9 Bone Black.	48272	Massey-Harris, Guelph.	3 "	Nil.	Mich. Carbon Wks., Detroit.		
"	9 Nitrate of Soda	48273	O. H. Killer, Stratford.	3 "	15	Nitrate Agencies Co., New-York		
"	9 Acid Phosphate.	48274	"	3 "	10	"		
"	9 Muriate of Potash.	48275	J. A. Andrew, Stratford.	3 "	25	"		

DISTRICT OF CALGARY—

May	16 Dried Blood.	44171	P. Burns & Co., East Calgary.	3 lbs.	10	Vendors.		
"	16 Tankage.	44172	"	3 "	10	"		
"	16 Fertilizer C...	44173	"	3 "	10	"		
"	16 Fertilizer A...	44174	"	3 "	10	"		
"	16 Standard...	44175	"	3 "	10	"		
"	16 Fertilizer D...	44176	"	3 "	10	"		
"	16 Fertilizer B...	44177	"	3 "	10	"		
"	16 Bone Meal...	44178	"	3 "	10	"		
"	16 Lawn.	44179	"	3 "	10	"		



SESSIONAL PAPER No. 14  
FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric acid p.c.							
		Total including that of nitric acid or ammonia if present.	Total, calculated as Ammonia.	Soluble in water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.	Potash.		
<i>Continued.</i>											
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
543	As guaranteed	4.94	6	4	3	1.75	8.75	7	5	48233	Meets guarantee.
	As found.	5.32	6.46	4.20	3.60	3.15	10.95	7.80	4.79		
544	As guaranteed	3.29	4	5.5	2.5	1.5	9.5	8	7	48234	
	As found.	3.36	4.08	6.55	3.35	4.50	14.40	9.90	8.65		
542	As guaranteed	0.82	1	8.5	0.55	1	10	9	2	48235	
	As found.	0.95	1.14	7.80	2.15	1.65	11.60	9.95	3.05		
192	As guaranteed			8	2	1	11	10	8	48241	
	As found.			8.55	3.70	0.85	13.10	12.25	7.65		
145	As guaranteed	2.47	3	5	3	0.25	8.25	8	5	48242	
	As found.	2.53	3.08	5.95	3.20	4.30	13.45	9.15	5.02		
153	As guaranteed	15.00	18							48243	
	As found.	16.40	19.91								
213	As guaranteed	2.06	2.5	6	2	1	9	8	1.5	48244	
	As found.	2.04	2.47	8.00	1.65	1.45	11.10	9.65	1.58		
541	As guaranteed	2.47	3	5.5	1.5	1.25	8.25	7	4	48250	
	As found.	2.94	3.57	6.10	3.45	2.45	12.00	9.55	4.50		
208	As guaranteed	1.65	2	6	2	1	9	8	5	48251	
	As found.	1.73	2.10	8.50	1.40	1.40	10.30	9.90	5.08		
209	As guaranteed	1.65	2	6	2	1	9	8	5	48252	
	As found.	1.58	1.92	8.35	1.90	1.75	12.00	10.25	4.95		
146	As guaranteed	2.47	3		20	1	21	20		48270	
	As found.	4.58	5.56		16.55	4.10	20.65	16.55			
157	As guaranteed	2.47	3.0	5.5	3.5	0.25	9.25	9.0	4.0	48271	
	As found.	2.21	2.68	8.35	0.40	3.00	11.75	8.75	4.71		
213	As guaranteed	2.06	2.5	6.0	2.0	1.0	9.0	8.0	1.5	48272	
	As found.	2.12	2.58	7.50	2.40	2.45	11.35	8.90	1.93		
255	As guaranteed	15.0	18.3							48273	
	As found.	15.7	19.16								
256	As guaranteed							14.0		48274	
	As found.			17.80	2.05	6.80	18.65	17.85			
257	As guaranteed								50.0	48275	
	As found.								49.70		

R. W. FLETCHER, INSPECTOR.

439	As guaranteed	10.74	13.04		3.0	0.77	5.77	3.0		44171	Meets guarantee.
	As found.	10.42	12.65	1.80	1.25	1.15	4.20	3.05			
440	As guaranteed	7.50	9.40	Trace.	5.87	2.91	8.78	5.87		44172	
	As found.	7.00	8.50	0.40	7.45	3.75	11.70	7.25			
432	As guaranteed	5.61	6.81	0.86	3.07	6.67	10.60	3.93	5.71	44173	
	As found.	5.71	6.93	1.65	5.85	3.90	11.40	7.50	7.57		
430	As guaranteed	2.80	3.40	0.26	1.15	13.80	15.30	1.41	3.80	44174	
	As found.	4.72	5.73	0.55	7.10	9.25	17.90	7.65	4.82		
313	As guaranteed	6.54	7.94	0.15	7.60	5.15	12.90	7.84	0.08	44175	
	As found.	7.38	8.96	0.70	7.85	4.65	13.20	8.55	0.25		
433	As guaranteed	6.53	7.93	0.17	8.25	4.30	12.72	8.41	4.66	44176	
	As found.	6.34	7.70	1.10	6.80	4.35	12.25	7.90	7.01		
431	As guaranteed	6.10	7.40	0.11	9.28	2.81	12.20	9.39	4.77	44177	
	As found.	5.01	6.08	0.25	6.55	2.70	9.35	6.80	11.39		
321	As guaranteed	3.51	4.26	0.15	15.7	7.89	25.74	15.85	Trace.	44178	
	As found.	4.47	5.43	0.95	13.15	11.45	25.55	14.10	0.20		
	As guaranteed									44179	
	As found.	5.72	6.95	2.00	7.55	11.55	21.10	9.55			Not registered.



Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NELSON—

1912.								
April 18	Fertilizer.....	49658	Vernon Fruit Co., Vernon, B.C.	3 lbs.	15	Swift Canadian Co., Edmonton		
" 18	" .....	49659	" ..	3 " ..	15	" ..		
" 18	" .....	49660	" ..	3 " ..	15	" ..		
" 26	" ..	49661	D. E. Gellatly & Sons, Gellatly, B.C.	3 " ..	25	Victoria Chem. Co., Victoria, B.C.		
" 26	" ..	49662	" ..	3 " ..	25	" ..		
" 26	" ..	49663	" ..	3 " ..	25	" ..		
" 26	" ..	49664	" ..	3 " ..	25	" ..		
" 26	" ..	49665	" ..	3 " ..	25	" ..		
May 2	" ..	49670	Brackman Ker M. Co., Nelson, B.C.	3 " ..	15	" ..		
" 2	" ..	49671	" ..	3 " ..	15	Vendors ..		
" 2	" ..	49672	P. Burns & Co., Calgary.	3 " ..	15	" ..		
" 2	" ..	49673	" ..	3 " ..	15	" ..		
" 2	" ..	49674	" ..	3 " ..	15	" ..		

DISTRICT OF VANCOUVER—

May 7	Fertilizer....	38346	Brackman Ker M. Co., New West- minster.	5 lbs.	15	Victoria Chem., Co., Victoria, B.C.		
" 13	Bone Meal..	38347	A.R. MacDougall, Vancouver.	3 " ..	15	Portland Seed Co., Portland, O.		Not regis- tered.
" 13	Sheep Manure	38348	Chas. Keeler, Van- couver.	3 " ..	15	J. A. Simmers, Ltd., Toronto.		" ..
" 14	Sulphate of Potash.	38349	Royal Nurseries, Vancouver.	3 " ..	20	Victoria Chem. Co., Victoria, B.C.		
" 14	Nitrate of Soda	38350	" ..	3 " ..	20	" ..		
" 15	Blood.....	38351	Brown Bros. South Vancouver.	3 " ..	20	P. Burns & Co., Vancouver.		Not regis- tered.



## SESSIONAL PAPER No. 14

## FERTILIZERS AS SOLD.

Registration Number	Analysis of Sample	Results of Analysis.								Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid p.c.						
		Total including that of Nitric Acid or Ammonia if present.	Total calculated as Ammonia	Soluble in Water.	Reported or Citrate Soluble.	Insoluble	Total.	Total Available.	Potash	

## THOS. PARKER, INSPECTOR.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
341	As guaranteed	4.12	5.0	6.87					12.00	19658	Meets guarantee.
	As found.....	4.50	5.31	6.78			10.90		11.58		
342	As guaranteed	4.72	5.5	7.32					9.0	19659	Meets guarantee.
	As found.....	5.18	6.29	6.68			11.85		12.24		
343	As guaranteed	4.93	6.0	7.78					6.0	19660	Meets guarantee.
	As found.....	5.07	6.15	7.15			11.25		8.14		
74	As guaranteed	3.5					10.00		11.0	19661	Meets guarantee.
	As found.....	4.33	5.26	11.05			11.05	11.05	10.54		
77	As guaranteed	15.5								19662	Meets guarantee.
	As found.....	16.15	19.60								
78	As guaranteed								50.0	19663	Meets guarantee.
	As found.....								12.48		
79	As guaranteed								0.0	19664	Meets guarantee.
	As found.....								19.80		
80	As guaranteed						15.00			19665	Meets guarantee.
	As found.....			18.70							
76	As guaranteed	2.5					16.00		11.0	19670	Meets guarantee.
	As found.....	2.50	3.04	8.20			12.05		12.03		
355	As guaranteed		3.5				25.00			19671	Meets guarantee.
	As found.....	2.70	3.28				25.2				
430	As guaranteed	2.80	3.40	0.26	1.15	13.80	15.30	1.41	3.80	19672	Meets guarantee.
	As found.....	3.18	4.21	0.90	10.25	9.15	20.25	11.15	6.52		
431	As guaranteed	6.10	7.40	0.11	9.28	2.81	12.25	9.40	4.77	19673	Meets guarantee.
	As found.....	6.42	7.80	0.25	9.20	2.80	12.25	9.40	3.24		
432	As guaranteed	5.61	6.81	0.86	3.07	6.67	16.60	3.93	5.71	19674	Meets guarantee.
	As found.....	7.29	8.87	0.80	3.95	5.85	10.60	4.75	6.78		

## J. F. POWER, INSPECTOR.

74	As guaranteed	3.5					9.0		11.0	38346	Meets guarantee.
	As found.....	3.77	4.60				10.8		12.62		
438	As guaranteed	4.19					22.94			38347	Meets guarantee.
	As found.....	5.70	4.50				25.35				
	As guaranteed									38348	Meets guarantee.
	As found.....	1.76	2.13	1.90	0.30	1.25	3.45	2.20			
78	As guaranteed								50.0	38349	Meets guarantee.
	As found.....								50.00		
77	As guaranteed	15.5								38350	Meets guarantee.
	As found.....	15.96	15.28								
439	As guaranteed	10.74	13.04		3.0	0.77	3.77	3.0			Meets guarantee.
693	As found.....	12.34	15.0	1.40	0.40	0.35	2.15	1.80			

38351 Meets guarantee.  
As registered  
No. 439 &  
693 Blend  
fertilizers.  
Sample  
meets guar-  
antee of  
label.



Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VANCOUVER—

1912.								
May 15	Tankage.. . . .	38352	Brown Bros. South Vancouver.	3 lbs..	20	P. Burns & Co., . . . . .		Not regis- tered.
" 16	Fertilizer.....	38353	W. J. Rennie & Co. Vancouver.	3 pkgs	60	W. J. Rennie & Co., Toronto.		
" 16	Tankage.....	38354	P. Burns & Co., Vancouver.	5 lbs..	60	Vendors.....		Not regis- tered.
" 16	Blood.....	38355	"	5 "	60	"		"

DISTRICT OF VICTORIA—

April 24	Fertilizer A...	49157	The Brackman Ker M. Co., Victoria B.C.	5 lbs..	15	The Victoria Chem. Co. Ltd. Victoria, B.C.		
" 29	Fertilizer B...	49158	"	5 "	15	"		
" 29	Fertilizer C...	49159	"	5 "	10	"		
" 29	Fertilizer D...	49160	"	5 "	15	"		
" 29	Blood Meal...	49161	"	5 "	20	P. Burns & Co., Vancouver, B.C.		Evidently not reg. No marks visible on Sack.
" 29	Bone Meal....	49162	The Brackman Ker M. Co., Victoria B.C.	5 "	10	Pacific Whaling Co., Ltd., Victoria, B.C.		
" 29	Nitrate of Soda	49164	Victoria Chem. Co Ltd., Victoria, B.C.	5 "	20		Parrott & Co. San Francisco.	
" 30	Superphosphate of Lime.	49165	"	5 "	20	Mountain Copper Co., San Francisco, Cal.		
" 30	Sulphate of Potash.	49166	"	5 "	20		Myer Wilson & Co., San Francisco, Cal.	
" 30	Nitrate of Potash.	49167	"	5 "	20		"	



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FERTILIZER AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Nitrogen p.c.		Phosphoric Acid p.c.							
		Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.		

Continued.

		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
(602)	As guaranteed	6.37	7.7	Trace.	5.87	2.91	8.78	5.87		38352	Meets guarantee.
	As found.....	6.71	8.14	5.15	5.55	3.50	12.15	8.05			
276	As guaranteed		2.5	8.0					2.0	38353	Meets guarantee.
	As found.....	1.97	2.40	12.10			15.70		3.8		
602	As guaranteed	6.57	7.75	Trace.	5.87	2.91	8.78	5.87		38354	Meets guarantee.
	As found..	6.20	7.37				14.20				
(439)	..	10.74	13.04		3.0	0.77	3.77	3.0		38355	See note under 38351. Meets guarantee.
603	As guaranteed	12.34	15.0								
	As found.....	12.35	16.22	1.00	0.10	0.65	1.75	1.10			

D. OSULLIVAN, INSPECTOR

73	As guaranteed	4.0					10.0		7.0	49157	Meets guarantee.
	As found	4.21	5.12				13.70		1.93		
74	As guaranteed	3.5					10.0		11.0	49158	Meets guarantee.
	As found.....	3.97	4.82				10.60		13.52		
75	As guaranteed						12.5		11.0	49159	Meets guarantee.
	As found						16.15		13.83		
76	As guaranteed	2.5					10.0		11.0	49160	Meets guarantee.
	As found.....	2.40	2.92				14.05	....	13.05		
(439)	..	10.74	13.04		3.0	0.77	3.77	3.0			See note under 38351. Meets guarantee.
603	As guaranteed	12.34	15.0							49161	
	As found.....	12.50	15.18	0.55	0.40	1.35	2.20	0.85			Meets guarantee.
355	As guaranteed		3.5				26.0			49162	
	As found.....	2.83	3.5				26.95				Meets guarantee.
77	As guaranteed	15.5								49164	
	As found.....	16.05	19.49								Meets guarantee.
80	As guaranteed						16.0			49165	
	As found						20.65				Meets guarantee.
	As guaranteed										
78	As found								50.0	49166	Meets guarantee.
									49.25		
	As guaranteed										Meets guarantee.
79	As found								50.0	49167	
									49.55		



## APPENDIX G.

## BULLETIN No. 243—COCOAS AND CHOCOLATES.

WM. HIMSWORTH, Esq.,  
Acting Deputy Minister,  
Inland Revenue,

OTTAWA, October 16, 1912.

SIR,—I beg to hand you a report upon 252 samples purchased as cocoas and chocolates in February and March of this year.

Cocoa has not been systematically inspected since September, 1900 (see Bulletin No. 72). At that time it was found that cocoa and chocolate were, as a rule, quite free from anything that could be regarded as adulteration.

The various processes of manufacture including removal of more or less fat, addition of starch, fineness of grinding, &c., have for their object the preparation of the article in digestible form, and there can be no doubt that the different brands found on the market approve themselves to the different tastes and needs of users of cocoa.

The terms cocoa and chocolate appear to be employed according to no very definite rule. It would be well to restrict the term chocolate to the sugared article, and especially to a preparation containing vanilla or other flavouring substance.

Where our inspectors have sent in considerable numbers of samples from the same manufacturers, it will be noted that such samples, when representing the same brand, give analytical results of very constant character. This indicates great care in manufacture; and it may be safely inferred from the appended tables, that cocoa and chocolate, as found on our markets, are of good quality. In one or two instances (see No. 49350 & 49351) the ash and the fat content are exceptional. Such samples are usually sold in bulk, and do not bear the manufacturer's name. They contain excess of cocoa husk.

We have not established any legal standards for these articles, and the present report may serve the purpose of a guide for future action in this direction. The federal standards of the United States of America require chocolate to contain not more than three (3%) per cent of insoluble ash, or three and a half (3.5 %) per cent of fibre or less than forty-five (45%) per cent of cocoa fat. They further limit the amount of starch permissible to nine (9%) per cent. Cocoa is defined as



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a product from which more or less of the fat has been removed, with corresponding changes in the amount of remaining constituents.

I consider it unnecessary as yet to advise standardization of cocoa and chocolate; and would respectfully suggest that the present report be published as Bulletin No. 243.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,

*Chief Analyst.*



NOTES.

MOTTS.

Number of Sample.	Ash.		Alkali-nity of Ash.	Mois-ture.	Fat.	Sugar.	Remarks.
	Total.	Soluble.					
47019	5·08	2·22	6·50	5·75	25·75	.....	Cocoa.
49347	5·70	2·55	7·05	6·15	18·80	.....	"
47022	3·27	.....	.....	.....	.....	.....	Chocolate.
47024	2·95	1·25	3·69	2·00	46·85	.....	"
46162	2·77	.....	.....	.....	.....	.....	"
45606	2·88	1·00	3·32	1·98	40·25	.....	"
49527	2·99	1·63	4·14	2·39	40·30	.....	"
40830	3·01	1·32	3·80	4·21	34·60	.....	"
49352	1·07	0·52	.....	0·97	22·10	63·32	Double diamond.

"CADBURY."

50127	1·48	0·94	.....	1·23	7·30	72·71	Chocolate.
50130	1·48	0·93	.....	1·25	7·25	71·46	"
44127	1·65	1·04	.....	1·04	7·35	69·50	"
48607	8·20	6·72	10·05	3·90	27·20	.....	Cocoa.

EPFS.

*46169	1·53	0·66	2·00	4·27	23·15	30·78	Cocoa.
39037	1·46	.....	.....	.....	.....	.....	"
*40822	1·56	0·64	2·05	3·71	22·70	31·56	"
*50125	1·58	0·70	2·05	3·78	23·10	29·68	Presence of starch (arrowroot) stated on the label.

GHIRARDELLI.

38280	2·77	1·96	.....	1·92	14·20	58·50	Chocolate powder.
47700	3·02	2·05	.....	2·39	15·40	55·18	" "
48489	2·98	2·06	.....	1·80	15·00	54·42	" "
47698	1·49	0·55	.....	1·55	24·35	58·37	" cake.

H. DE JONG.

49523	7·60	5·04	9·80	4·30	28·65	.....	Cocoa.
49612	7·51	6·07	10·40	4·40	27·45	.....	"
49695	7·76	5·47	10·20	6·45	26·95	.....	"

\* Contains starch.



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COCHRANE.

Number of Sample.	Ash.		Alkali inty. of Ash.	Moisture.	Fat.	Sugar	Remarks.
	Total.	Soluble.					
50124	3.71	1.64	4.70	3.65	10.10	19.70	Cocoa
50129	6.55	2.26	7.17	5.17	17.05		Chocolate.

MENDEL.

46165	1.32	0.51		1.24	22.45	60.00	Chocolate.
46829	1.31	0.50		1.06	23.05	61.95	

ROSENTHAL.

45602	5.52	2.04	6.35	4.23	20.35		Cocoa.
47694	7.74	6.40	10.40	4.80	28.00		

TETLEY.

44124	8.69	7.14	11.30	5.67	23.65	24.25	Cocoa.
38279	8.45	6.89	11.00	7.08	24.20		

TEALANTER.

45608	3.00	0.91	3.36	3.62	42.05		Chocolate.
49354	1.32	0.49		1.22	22.15	75.95	Dom. Cho. Works.
47869	6.12	1.62	6.25	3.05	23.70		Cocoa.

VAN HOUTE.

44125	8.25	6.75	11.15	5.34	27.55		Cocoa.
49613	8.05	6.58	10.50	4.47	28.95		"
38277	7.95	6.47	10.40	4.34	28.95		"

38282	2.84	2.00		2.15	14.75	56.08	Chocolate, Charlesworth.
47697	0.74	0.32		1.50	24.70	52.54	" Dom. Cho. Works.
38278	6.80	4.85	9.10	4.82	27.70		Cocoa, Dreissach.
47016	7.01	5.50	9.15	5.42	24.45		" Melior.
47692	6.08	4.45	8.10	5.71	29.70		" Ridgway.
47030	8.08	6.58	10.00	4.82	26.80		" Schwartz.
48606	6.67	4.93	8.70	3.95	30.35		" Sackel.

\* Contains starch (none in 47697, arrowroot in 50124).



BAKERS CHOCOLATE AND COCOA.

Number of Sample.	ASH.		Alkali- nity of Ash.	Mois- ture.	Fat.	Sugar.	Remarks.
	Total.	Soluble.					
47021	3·10	.....	.....	.....	.....	.....	Chocolate No. 1.
46161	3·11	1·27	3·8	0·76	54·1	.....	"
45607	3·05	.....	.....	.....	.....	.....	"
37367	3·01	.....	.....	.....	.....	.....	"
40826	3·17	1·27	3·8	0·76	54·1	.....	"
49526	2·90	.....	.....	.....	.....	.....	"
49528	3·10	1·15	3·6	1·02	54·4	.....	"
49529	3·12	.....	.....	.....	.....	.....	"
48611	3·26	.....	.....	.....	.....	.....	"
48612	2·93	1·11	3·5	1·95	54·4	.....	"
48614	3·18	.....	.....	.....	.....	.....	"
49608	3·26	.....	.....	.....	.....	.....	"
47696	3·32	.....	.....	.....	.....	.....	"
47023	1·55	0·52	.....	0·90	39·5	41·2	Sweetened chocolate.
46167	5·16	.....	.....	.....	.....	.....	Cocoa.
45601	5·80	.....	.....	.....	.....	.....	"
45605	5·65	2·07	6·8	4·02	24·5	.....	"
40823	5·47	.....	.....	.....	.....	.....	"
50122	5·21	1·85	6·4	4·26	27·0	.....	"
49521	5·10	.....	.....	.....	.....	.....	"
49522	5·19	.....	.....	.....	.....	.....	"
48083	5·22	.....	.....	.....	.....	.....	"
48610	5·74	1·89	6·9	3·50	24·8	.....	"
44121	5·35	2·00	6·4	4·58	28·0	.....	"
44123	5·06	.....	.....	.....	.....	.....	"
39034	5·65	.....	.....	.....	.....	.....	"
47888	5·18	1·78	6·3	4·41	27·9	.....	Sold as Webb's.
39033	5·75	2·34	6·8	6·05	25·2	.....	Sold in bulk.
39038	5·53	2·29	6·7	6·05	25·5	.....	"

FRY.

47017	1·67	.....	.....	.....	.....	.....	Cocoa.
*37358	1·67	0·59	2·05	3·46	14·90	36·83	Homeopathic cocoa.
37360	1·66	.....	.....	.....	.....	.....	" "
*39035	1·82	0·63	2·15	2·90	15·10	39·70	" "
*48492	1·58	0·50	1·95	3·33	14·25	38·33	" "
38275	1·67	.....	.....	.....	.....	.....	.....
47693	1·77	.....	.....	.....	.....	.....	.....
46170	5·28	.....	.....	.....	.....	.....	Breakfast cocoa.
37361	5·37	3·95	8·25	5·27	30·85	.....	"
39036	5·46	4·11	8·30	5·09	31·10	.....	"
50121	5·41	.....	.....	.....	.....	.....	"
48208	5·41	4·02	8·10	4·76	30·40	.....	"
48220	5·45	.....	.....	.....	.....	.....	"
48096	5·45	.....	.....	.....	.....	.....	"
48609	5·52	4·13	8·15	4·45	31·25	.....	"
46164	0·96	0·38	.....	1·37	22·60	59·25	Chocolate.
37364	3·01	0·97	.....	2·43	17·90	41·31	"
37365	1·27	.....	.....	.....	.....	.....	"
39040	1·26	.....	.....	.....	.....	.....	"
50128	1·25	.....	.....	.....	.....	.....	"
48213	1·22	0·42	.....	1·10	23·05	59·25	" powder.
48225	1·18	.....	.....	.....	.....	.....	" "
48086	1·24	0·41	.....	1·05	23·80	57·14	" "
48095	1·28	.....	.....	.....	.....	.....	" "
48613	0·92	0·33	.....	1·11	22·50	60·90	" diamond.
45603	5·48	.....	.....	.....	.....	.....	Cocoa.?
40821	5·46	.....	.....	.....	.....	.....	" ?

\*Contains starch (arrowroot) stated as " Other ingredients " on the lable.



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LOWMEYER.

Number of Sample.	ASH.		Alkali- nity of Ash.	Mois- ture.	Fat.	Sugar.	Remarks.
	Total.	Soluble.					
47025	2.98	0.98	3.69	2.06	53.2		Chocolate.
37366	3.35	1.40	3.85	0.99	53.0		
40827	3.68	1.34	4.04	0.41	51.35		
48615	3.24						
49607	3.31						
46168	1.23	2.11	6.45	3.68	22.7		Chocolate.
47604	5.43	2.07	6.55	4.19	22.95		
37359	1.82						
37362	5.50	2.30	6.66	3.79	23.05		Cocoa.
40825	5.63						
48908	1.14						
49614	5.59	2.29	6.80	4.17	20.00		
47609	1.14	0.43		1.12	26.00		Chocolate.
37363	1.25	0.44		1.19	23.80		
39041	2.87	0.88		1.10	10.20	40.40	
39042	2.65	0.87		1.31	16.00	19.71	
39043	2.92				17.15	40.48	
50126	3.66	1.04		2.11	15.85	43.42	
44126	3.64	1.02		1.76	16.30	43.87	
44128	2.50	0.88		1.78	16.20	47.95	
44129	2.63	0.88		1.71	15.35	48.40	
44130	1.20	1.07		1.87	16.70	47.37	
48490	2.40	0.70		1.91	18.30	46.30	
38281	2.60	0.70		2.55	15.20	47.80	

MISCELLANEOUS EXAMINATIONS.

49340	5.69	1.07	6.66	4.93	21.65		Cocoa.
49350	4.79	1.74	7.29	2.96	6.00		
49351	13.80	2.91	11.40	4.00	3.70		
49356	5.19	1.55	7.05	4.55	21.20		Chocolate.
47918	1.11						
47919	0.05						
40824	2.30						
50123	2.47	1.82	6.40	4.49	22.95	23.70	
49524	5.34	1.86	6.20	4.40	23.25		
49534	5.30						
49345	5.50						
47882	5.52						
47891	5.39						
47867	5.26	1.60	6.20	4.17	25.25		
48080	5.19						
44122	5.25						
88276	5.64	1.84	6.30	4.13	23.90		
47691	5.05						
46163	4.00						Chocolate.
45610	3.38	1.35	3.81	1.23	52.00		
49828	4.15	1.45	4.91	2.27	35.25		
49530	4.24						
49655	4.19	1.42	4.90	1.26	34.75		
49609	3.00	1.17	3.61	1.51	54.05		
47699	3.86	1.48	4.98	4.60	34.10		
48494	2.34	0.95	3.40	2.89	11.20	45.36	



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1912.							
Feb. 19	Cocoa	47016	Wentzells, Ltd., Halifax, N.S.	3 tins.	45	Melior, Holland.....	Mrs.....
" 20	"	47017	City Provision Store, Halifax, N.S.	3 "	30	J. S. Fry, London, Eng.	".....
" 20	"	47018	W. J. Forristall & Co., Halifax, N.S.	3 "	30	Cowan Co., Toronto.	Unknown.....
" 20	"	47019	John P. Mott & Co., Halifax, N.S.	3 "	Nil	Vendors	.....
Mar. 6	"	47020	W. H. Schwartz & Sons, Halifax, N.S.	3 "	25	"	.....
Feb. 19	Chocolate...	47021	Wentzells, Ltd., Halifax, N.S.	½ lb.	25	W. Baker, Dorchester, Mass.	Mfrs.....
" 20	"	47022	T. H. Brown, Halifax, N.S.	½ "	20	J. P. Mott & Co., Halifax, N.S.	J. P. Crowe & Co., Halifax.
" 20	"	47023	W. J. Hopgood & Sons, Halifax, N.S.	½ "	18	W. Baker, Dorchester, Mass.	Mfrs.....
" 21	"	47024	John P. Mott & Co., Halifax, N.S.	½ "	Nil	Vendors	.....
" 21	"	47025	J. F. Crowe & Co., Ltd., Halifax, N.S.	½ "	17	W. M. Lowney Co., Montreal	Mfrs.. ..

DISTRICT OF PRINCE EDWARD ISLAND—

Feb. 8	Chocolate...	46161	Beer & Goff, Charlottetown, P.E.I.	3 pks	75	Walter Baker & Co., Ltd., Dorchester, Mass.	.....
" 8	"	46162	" " "	3 "	60	Jno. P. Mott & Co., Halifax, N.S.	.....
" 9	"	46163	John McKenna, Charlottetown, P.E.I.	3 "	30	Cowan & Co., Ltd., Toronto.	.....
" 15	"	46164	Brace & McKay Co., Ltd., Summerside, P.E.I.	3 "	24	J. S. Fry & Sons, Bristol & London, Eng.	.....
" 19	"	46165	Sanderson & Co., Charlottetown, P.E.I.	3 "	36	M. Menier....	.....
" 7	Cocoa ...	46166	Stewart & Son, Charlottetown, P.E.I.	3 "	30	The Cowan Co., Ltd., Toronto.	.....
" 7	"	46167	" " "	3 "	45	The Walter Baker Co., Ltd., Montreal	.....
" 8	"	46168	Beer & Goff, Charlottetown, P.E.I.	3 "	45	The Walter M. Lowney Co., Montreal.	.....
" 9	"	46169	John McKenna, Charlottetown, P.E.I.	3 "	30	Jas. Epps & Co., Ltd., London, Eng.	.....
" 15	"	46170	Brace-McKay Co., Ltd., Summerside, P.E.I.	3 "	45	J.S.Fry & Sons, Ltd., Bristol, Eng.	.....



# SESSIONAL PAPER No. 14

[illegible]

R. J. WAUGH, INSPECTOR.

	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.
	7.01	1.50	2.14	4.42	20.5			10.05		78
	1.07									
	2.24									
	0.08	2.22	6.50	1.75	2.75			7.42		11
	8.08	6.58	10.00	4.82	17.50			11.82		89
	3.10									
	1.27									
Subtotal (continued)	1.55	0.52		6.00	16.00			11.11		8
	2.15	1.25	3.50	1.00	16.80			4.75		31
	2.98	0.98	3.60	1.00	16.70			6.60		23

WM. A. WEEKS, INSPECTOR.

[illegible]



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NEW BRUNSWICK—

1912.							
Feb. 6	Cocoa	45601	Dearborn & Co., St. John, N.B.	3 tins.	33	Walter Baker & Co., Ltd., Montreal.	
" 14	"	45602	Wm. Hawker & Son, St. John, N.B.	½ lb.	45	Rowntree, York, Eng.	
Mar. 5	"	45603	Yessa Grocery Store, Fredericton, N.B.	3 cans	30	J. S. Fry & Sons, Ltd., Bristol, Eng.	
" 13	"	45604	Reed & Co., Ltd., Moncton, N.B.	3	30	The Walter M. Lowney Co., Ltd., Montreal.	
" 14	"	45605	J. D. Paulin, Newcastle, N.B.	3	45	Walter Baker & Co., Montreal.	
Feb. 7	Chocolate.	45606	Walter Gilbert, St. John, N.B.	½ lb.	20	Jno. P. Mott & Co., Halifax, N.S.	
" 7	"	45607	McPherson Bros., St. John, N.B.	1	20	Walter Baker & Co., Ltd., Dorchester, Mass.	
Mar. 6	"	45608	Borden & King, Woodstock, N.B.	3 pks	30	Todhunter, Mitchell & Co., Toronto.	
" 13	"	45609	Reed & Co., Ltd., Moncton, N.B.	3 bars	21	The W. M. Lowney Co., Montreal.	
" 14	"	45610	George Stables, Newcastle, N.B.	½ lb.	25	The Cowan Co., Ltd., Toronto.	

DISTRICT OF QUEBEC—

Feb. 6	Cocoa	37358	Arthur Rinfret, 414 Rue St. Joseph, Quebec.	½ lb.	30	J. S. Fry & Son, Bristol.	J. B. Bedard, Quebec.
" 7	"	37359	Arthur Drolet, 714 Rue Valier, Quebec.	½ "	30	Lowney's Co., Montreal.	Mfrs.....
" 7	"	37360	" " " "	½ "	30	Fry & Sons, Bristol.	Langlois & Paradis.
" 8	"	37361	O. Lacroix, 19 Rue St. Joseph, Quebec.	½ "	36	" "	Mfrs..
" 8	"	37362	" " " "	½ "	30	Lowney's, Montreal.	
" 7	Chocolate.	37363	Arthur Drolet, 714 Rue Valier, Quebec.	½ "	39	" "	Mfrs.....
" 7	"	37364	" " " "	½ "	30	J. S. Fry & Sons, Bristol.	J. B. Reneaud & Cie.
" 8	"	37365	O. Lacroix, 19 Rue St. Joseph, Quebec.	½ "	45	" "	Mfrs. ....
" 8	"	37366	" " " "	½ "	30	Lowney's, Montreal.	
" 8	"	37367	" " " "	½ "	25	Baker, Dorchester, Eng.	







Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ST. HYACINTHE—

1912.							
Mar. 25	Cocoa .....	39033	H. Belisle, St. Hyacinthe	1 box.	25	W. Baker & Co., Ltd.	
Feb. 19	" .....	39034	N. Larivie, Farnham.....	3 "	39	Bakers....	Hudson & Orsali Montreal.
" 20	" .....	39035	L. Bissonnet, St. Jean....	3 "	30	J. S. Fry & Sons, Ltd.	
" 20	" .....	39036	D. Cussan, St. Jean .....	½ lb...	25	"	
Mar. 6	" .....	39037	Davignon & Pratte, Knowlton.	3boxes	25	J. Epps & Co., Ltd.	
" 7	" .....	39038	The Hub, Cowansville, P.Q.	½ lb...	25	W. Baker & Co., Ltd	
Feb. 19	Chocolate...	39040	E. Bienvenn, Farnham...	3boxes	36	J. S. Fry & Sons, Ltd.	
" 22	" .....	39041	Lemay & Fiset, Sherbrooke	3 "	30	Lowney, Montreal	
Mar. 6	" .....	39042	N. O. Rockwell, Waterloo	½ lb..	25	"	
" 19	" .....	39043	P. Thibault, Victoriaville	3boxes	30	"	

DISTRICT OF MONTREAL—

Feb. 14	Cocoa .....	40821	M. Schwartz, 100 St. Cath- erine St., Montreal.	3 tins.	25	J. S. Fry & Son.....	
" 14	" .....	40822	E. Martin, 203 Laurier Ave., W., Montreal.	3 "	25	Jas. Epps & Co., Ltd.	
" 14	" .....	40823	" " .....	3 "	35	W. Baker & Co., Ltd. Montreal.	
" 15	" .....	40824	Wilfrid Brouillet, 77 Uni- versity St., Montreal.	3 "	30	The Cowan Co., Ltd. Toronto.	
" 15	" .....	40825	S. Dever & Son, 107 Colon- ial Ave., Montreal.	3 "	45	Walter M. Lowney..	
" 15	Chocolate...	40826	Wilfrid Brouillet, 77 Uni- versity St., Montreal.	3cakes	10	W. Baker Co., Ltd...	
" 15	" .....	40827	S. Dever & Son, 107 Colon- ial Ave., Montreal.	3 "	40	W. M. Lowney Co...	
" 15	" .....	40828	" " .....	3 "	30	The Cowan Co., Ltd.	
" 15	" .....	40829	L. Beaudoin, 21 Vitre St., Montreal.	3 "	45	Meniers.....	
" 16	" .....	40830	L. S. Guay, 124 Sher- brooke St., W., Mont- real.	3 "	30	Jno. P. Mott & Co...	



SESSIONAL PAPER No. 14  
AND CHOCOLATES.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.										No. of Sample.
	On Air-Dry Original Material.										
	Ash.					Fat.					
	Total.	Soluble in Water.	Alkalinity of Ash (Calc. % Ac. 1 per 1 Grain Chocolate and Cocoa).	Moisture.		By Centu- rage.	By Contin- uous Extra- ction with Ether.	Total.	Total Ash calculated to Fat and Moisture from Sample.	Total Ash calculated to Fat, Moisture and Sugar Free Sample.	

J. C. ROULEAU, INSPECTOR.

	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	
	7.75	2.54	6.71	6.06	25.15			8.55	41		39033
	5.65										39034
	1.82	0.63	2.15	2.90	15.10		39.70	4.50	5		39035
	5.46	1.11	8.30	5.09	21.19			5.46	75		39036
	1.56										39037
	5.53	2.29	6.70	6.06	25.30			8.98	41		39038
	1.26										39040
	2.87	0.88		1.10	30.29		46.06	7.95	31		39041
	2.65	0.81		2.31	16.06		49.75	8.50	31		39042
	2.92				17.15		45.38				39043

J. J. COSTIGAN, INSPECTOR.

	5.46										40821
	1.56	0.61	2.06	3.71	22.70		31.56	3.71	41		40822
	5.47										40823
	5.50										40824
	5.63										40825
	3.17	1.27	3.78	0.76	54.05			7.01	40		40826
	3.68	1.31	4.04	0.41	51.35			7.62	36		40827
	4.15	1.45	4.91	2.27	35.25			6.64	35		40828
"Chocolat Menier"	1.31	0.50		1.06	23.05		61.05	8.83	38		40829
"Motts Elite"	3.01	1.32	3.80	4.21	34.60			4.92	44		40830



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF OTTAWA—

1912.							
Feb.	3	Cocoa .....	50121 Seely & Stewart, Bank st., Ottawa.	3 tins.	30	J. S. Fry & Son, Ltd., England.	Mfrs.....
"	5	" .....	50122 Williams & Vanluven, Smith's Falls.	3 " .	39	W. Baker & Co., Ltd., Dorchester, Mass.	Robertson, Nicolle, & Co., Smith's Falls.
"	19	" .....	50123 Jos. P. Valiquette, Dalhousie st., Ottawa.	3 " .	30	The Cowan Co., Ltd., Toronto.	S. Major, Ltd., Ottawa.
"	19	" .....	50124 L. Malette, Dalhousie st., Ottawa.	$\frac{3}{4}$ lb ..	20	C. H. Cochrane & Co., Ottawa.	Mfrs.....
"	19	" ...	50125 J. Mundy, St. Patrick st., Ottawa.	3 tins.	30	Jas. Epps & Co., Ltd., London, Eng.	Unknown .....
"	3	Chocolate...	50126 Murphy - Gamble, Ltd., Ottawa.	3 " .	45	Lowney's, Montreal.	Mfrs.....
"	3	" ...	50127 Bate & Co., Sparks st., Ottawa.	3 " .	75	Cadbury, England..	Crosse & Blackwell, London, Eng.
"	3	" ...	50128 A. L. Pinard & Sons, Rideau st., Ottawa.	3 " .	47	J.S.Fry & Sons, Ltd., Bristol, Eng.	Mfrs.....
"	19	" ...	50129 L. Malette, Dalhousie st., Ottawa.	$\frac{3}{4}$ lb ..	30	C. H. Cochrane & Co., Ottawa.	" .....
"	20	" ...	50130 Bryson - Graham, Ltd., Ottawa.	3 tins.	75	Cadbury, England ..	" .....

DISTRICT OF KINGSTON—

Feb.	5	Cocoa .....	49521 W. J. Nesbit, Kingston..	3 pks	45	Baker, Ltd., Dorchester, Mass.	.....
"	6	" .....	49522 A. Glover, Kingston.....	3 " .	45	" " ..	.....
"	6	" .....	49523 J. Gilbert, Kingston. ....	3 " .	40	H. De Jong, Wormerveer, Holland.	.....
"	7	" .....	49524 Thompson Bros., Belleville	3 " .	30	Cowan's, Toronto....	.....
"	5	Chocolate...	49526 Wm. J. Arnil, Alfred st., Kingston.	3 " .	38	Baker, Ltd., Dorchester, Mass.	.....
"	5	" ...	49527 W. H. Medley, Johnston st. Kingston.	3 " .	30	J. P. Mott, Halifax.	.....
"	7	" ...	49528 J. B. Harker, Belleville..	3 " .	75	Baker, Ltd., Dorchester, Mass.	.....
"	8	" ...	49529 J. E. Lillico, Peterboro...	3 " .	75	" " ..	.....
"	8	" ...	49530 A. Pearson, Peterboro....	3 " .	30	Cowan's, Toronto. . .	.....
"	7	Cocoa . . .	49534 S. Fort, Port Hope.....	3 " .	30	" " ..	.....







Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cent.	Manufacturer.	Furnisher.

DISTRICT OF TORONTO—

1912.							
Feb.	8	Cocoa . . . . .	49347 A. C. Tresham, 266 King St. West, Hamilton.	3 pks	30	Motts . . . . .	Unknown
"	14	" . . . . .	49348 The Cowan Co., Ltd., Sterling Road, Toronto.	3 "	23	Vendors . . . . .	
"	15	" . . . . .	49349 T. J. Medland, Ltd., 118 King St. East, Toronto.	½ lb.	13		
"	16	" . . . . .	49350 J. G. Pond, Queen St. West, Toronto.	½ "	13		J. M. Lowes Co., Ltd., Toronto.
"	21	" . . . . .	49351 Prentice & Sproule, Col lingswood.	½ "	13		Lang & Bro., Collingwood.
"	7	Chocolate . . .	49352 The Arthur Bell Co., 447 Barton St. East, Hamilton.	3 cakes	15	Jno. P. Mott & Co., Halifax.	
"	13	" . . . . .	49354 D. Cameron, 164 Main St. East, Toronto.	3 pks.	15	Todhunter, Mitchell & Co., Toronto.	
"	14	" . . . . .	49355 The Cowan Co., Ltd., Sterling Road, Toronto.	3 "	22	Vendors . . . . .	
"	15	" . . . . .	49356 J. M. Evans & Co., 1743 Dundas St., Toronto.	½ lb.	20		Robertson Bros., Toronto.

DISTRICT OF LONDON

Feb.	19	Cocoa . . . . .	47882 Jones & May, Exeter . . . .	3 pks.	30	Cowan & Co., Ltd., Toronto.	
"	19	Chocolate . . .	47887 J. A. Stewart, Exeter . . . .	3 "	30	Pure Gold Mfg. Co., Toronto.	Pure Gold Chocolate.
"	19	Cocoa . . . . .	47888 " " . . . . .	3 "	38	W. Baker Co., Ltd., Dorchester, Mass.	Labelled Webbs Pure Cocoa Powder.
"	20	" . . . . .	47891 Geo. McLennon & Co., Clinton.	3 "	30	Cowan & Co., Ltd., Toronto.	
"	21	" . . . . .	48208 McGuire & Co., Seaforth.	3 "	45	J. S. Fry & Sons, Bristol, Eng.	Fry's Pure Breakfast Cocoa.
"	21	Chocolate . . .	48213 T. S. Blues, Seaforth . . . . .	3 "	45	"	Fry's Chocolate Powder.
"	22	Cocoa . . . . .	48220 Knechtel Grocery Co., Stratford.	3 "	45	"	
"	24	Chocolate . . .	48225 W. R. Butcher, St. Marys	3 "	30	"	Fry's Chocolate Powder.



SESSIONAL PAPER No. 14  
AND CHOCOLATES

Inspector's Report. (Is not on expression of opinion).	Results of Analysis										No. of Sample	
	On Air Dry Original Material											
	Ash		Alkalinity of Ash as $H_2SO_4$ per 1 grain Chocolate and Cocoa.	Moisture.	Fat.			Total Ash, calculated to Fat and Moisture Free Sample.	Total Ash, calculated to Fat, Moisture and Sugar Free Sample.	Percentage of Ash Soluble in Water.		
	Total	Soluble in Water.			By Graft 162°	By Graftin 170°	By Graftin 175°					

## H. J. DAGER, INSPECTOR.

	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.
	5.70	2.35	7.95	5.15	18.80	19.35		7.60		45 4847
	5.70									4848
Pure Cocoa imported by vendors	5.09	3.97	6.60	3.95	27.95			7.08		60 49349
	4.79	1.74	4.20	2.95	6.35	6.10		5.25		26 49350
	13.89	2.95	11.40	4.00	3.70	4.35		15.05		21 49351
"Double Diamond" Chocolate.	1.07	0.32		0.97	20.45		6.30		7.80	38 49352
Vienne Sweet Diamond Chocolate.	1.32	0.49		1.22	21.15		6.35		6.37	37 49353
Cowan's Perfection Chocolate lates	1.19	1.42	1.99	1.20	4.75			6.31		34 49354
	5.19	1.58	5.35	4.35	20.50			7.42		30 49355

## ENO TALBOT, ACTING INSPECTOR

	5.29									47882
Pure Gold Chocolate . . . .										47887
Labelled "Woolley's Pure Cocoa Powder"	5.18	1.78	6.30	4.41	27.85			7.45		54 47888
	5.39									47890
Fry's Pure Breakfast Cocoa	5.41	4.02	8.10	4.76	30.45	31.30		8.44		75 48208
Fry's Chocolate Powder . .	1.22	0.42		1.10	23.05	59.25		7.35		34 48213
	5.45									48220
Fry's Chocolate Powder . .	1.18									48225

\* Contains starch.    † Contains excess of bark.    ‡ Chocolate Jelly Pudding coll. by mistake.



4 GEORGE V., A. 1914

BULLETIN No. 243—COCOAS

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer	Furnisher.

DISTRICT OF WINDSOR

1912.							
Feb. 12	Cocoa	47867	W. H. Tricker, Sarnia	3 pks.	30	Cowan Co., Ltd., Toronto.	
" 12	"	47869	R. Wanless, Sarnia	"	30	Tothunter, Toronto.	
" 6	"	48080	John Diprose, London, Ont.	"	30	Cowan Co., Ltd., Toronto.	
" 7	"	48083	Wm. Hayes, London, Ont.	"	45	Walter Baker Co., Ltd.	
" 7	Chocolate	48086	Thos. Shaw, London, Ont.	"	30	J. S. Fry & Sons, Bristol, Eng.	
" 8	"	48095	Teeples Market, London, Ont.	"	30	" "	
" 8	Cocoa	48096	" "	"	30	" "	

DISTRICT OF MANITOBA—

Feb. 20	Cocoa	48606	A. Macdonald & Co., Portage Ave., Winnipeg.	"	75	P. H. Suchards, Neuchatel, Suisse.	
" 20	"	48607	Geo. Nixon & Co., Portage Ave., Winnipeg.	"	75	Cadbury, England.	
" 20	"	48608	" "	"	75	Lowney & Co., Montreal.	
" 21	"	48609	N. Trimble, Portage Ave., Winnipeg.	"	45	Fry & Sons, Bristol, Eng.	
" 21	"	48610	" "	"	45	Baker & Co., Ltd., Montreal.	
" 21	Chocolate	48611	" "	"	75	W. Baker & Co., Ltd., Dorchester, Mass.	
" 21	"	48612	H. G. Weldon & Co., Portage Ave., Winnipeg.	"	45	" "	
" 21	"	48613	The Codville Co., Winnipeg.	"	13	J. S. Fry & Sons, Ltd., London, Eng.	
" 21	"	48614	Foley Bros., & Larsen, Winnipeg.	"	50	W. Baker Co., Ltd., Dorchester, Mass.	
" 21	"	48615	" "	"	50	Lowney Co., Ltd., Montreal.	

DISTRICT OF CALGARY—

Mar. 6	Cocoa	44121	Capitol Mercantile Co., Edmonton.	3 pks.	45	Walter Baker & Co., Ltd., Montreal.	
" 7	"	44122	Hudson Bay Co., Edmonton.	3 cans	30	The Cowan Co., Toronto.	
" 7	"	44123	The Acme Co., Edmonton	3 "	45	Walter Baker & Co., Dorchester, Mass.	
" 7	"	44124	Chas. W. Campbell, Edmonton.	3 "	75	Jos. Tetley & Co., Ltd., London, Eng.	
" 7	"	44125	" "	3 "	90	C. J. Van Houten & Son, Weesp, Holland.	



SESSIONAL PAPER No. 14  
AND CHOCOLATES.

Inspector's Report. (Is not an expression of opinion.)	RESULTS OF ANALYSIS.										No. of Sample.
	On Air-Dry Original Material.										
	Ash.			Fat.			Total Ash calculated to Fat and Moisture Free Sample.	Total Ash calculated to Fat, Moisture and Sugar Free Sample.	Percentage of Ash Soluble in Water.		
	Total	Soluble in Water.	Alkalinity of Ash ex. in Acid per gram Chocolate and Cocoa.	Moisture	By Centrifuge.	By Continuous Extraction, 16 hrs.				Cane Sugar	

JNO TALBOT, INSPECTOR.

	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	
Perfection Cocoa	5.26	1.69	6.20	4.17	23.25			7.45		32	47867
	6.12	1.02	6.25	3.05	23.76			8.35		26	47869
	5.19										48080
Breakfast Cocoa	5.22										48083
	1.24	0.41		1.05	23.80		57.14		6.82	33	48086
Fry's Chocolate Powder.	1.28										48095
Pure Breakfast Cocoa	5.45										48096

A. C. LARIVIERE, INSPECTOR.

"Ibis" Brand	6.67	4.93	8.70	3.95	30.57			10.17		74	48606
	8.20	6.72	10.05	3.90	27.20	28.15		11.00		82	48607
	5.14										48608
	7.52	4.13	8.15	4.45	31.25			8.39		75	48609
	5.74	1.89	6.85	3.50	24.80	25.30		8.01		33	48610
	3.26										48611
	2.93	1.11	3.50	1.95	54.35			6.70		38	48612
Fry's Diamond Sweet Chocolate.	0.92	0.33		1.11	22.50		60.90		5.94		48613
	3.18										48614
Lowney's Premium	3.24										48616

R. W. FLETCHER, INSPECTOR.

	5.35	2.00	6.40	4.58	27.95			7.93		37	44121
	5.25										44122
	5.06										44123
	8.69	7.14	11.30	5.67	23.65	24.25		12.30		82	44124
	8.25	6.75	11.15	3.34	27.55			11.94		82	44125



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF CALGARY—							
1912.							
Mar. 6	Chocolate.	44126	Capitol Mercantile Co., Edmonton.	1 tin .	50	Lowney's, Montreal.	
" 7	"	44127	Hudson Bay Co., Edmonton.	1 " ..	25	Cadbury, Bournville, Eng.	
" 8	"	44128	Hallier & Aldridge, Edmonton.	3 tins.	50	Lowney's, Montreal.	
" 8	"	44129	J. H. Morris Co., Ltd., Edmonton.	1 tin .	25	"	
" 8	"	44130	City Grocery, Edmonton.	1 " ..	25	"	
DISTRICT OF NELSON—							
Feb. 13	Chocolate...	48489	England & Sons, Kamloops.	½ lb ..	25	D. Ghirardette, San Francisco.	
" 13	"	48490	"	3 tins.	30	W. M. Lowney Co., Montreal.	
" 13	Cocoa .	48491	"	½ lb	20	The Cowan Co., Toronto.	
" 13	"	48492	"	¼ " ..	30	J. S. Fry & Sons, Bristol, Eng.	
" 13	Chocolate...	49607	Stevens & Allan, Kamloops.	½ " ..	25	W. M. Lowney Co., Montreal.	
" 13	"	49608	"	½ " ..	25	W. Baker & Co., Dorchester, Mass.	
" 13	"	49609	"	½ " ..	25	The Cowan Co., Toronto.	
" 13	Cocoa .	49612	Wilson Grocery Co., Kamloops.	½ " ..	35	H. DeJong, Wormerveer, Holland.	
" 13	"	49613	"	½ " ..	40	C. J. Van Houten & Son, Weesp, Holland.	
" 13	"	49614	"	½ " ..	35	W. M. Lowney Co., Montreal.	
DISTRICT OF VANCOUVER—							
Feb. 13	Cocoa .	38275	J. Graham, Milner, B.C.	3 pks.	30	Fry & Co., London, Eng.	
" 13	"	38276	Burrows & Carncross, Cloverdale, B.C.	½ lb...	30	Cowans, Ltd., Toronto.	
" 13	"	38277	H. V. Parr, Cloverdale, B.C.	½ " ..	55	Van Houten & Co...	
" 14	"	38278	Lillie's Cash Grocery, Chilliwack, B.C.	½ " ..	50	A. Dreissen, Rotterdam.	
" 14	"	38279	B. T. Malcolm, Chilliwack, B.C.	3 tins.	75	Jos. Tetley & Co., London, Eng.	



SESSIONAL PAPER No. 14  
AND CHOCOLATES.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.									
	On An Dry Original Material.									
	Ash.		Alkalinity of Ash as N. Acid per 1 grm Chocolate and Cocoa.	Moisture.	Fat.			Total Ash calculated to Fat and Moisture Free Sample.	Total Ash calculated to Fat, Moisture and Sugar Free Sample.	Percentage of Ash Soluble in Water.
	Total	Soluble in Water.			By Centri- fuge.	By Contin- uous Extrac- tion 16 hrs.	Cane Sugar.			
<i>Concluded</i>										
	p. c.	p. c.			p. c.	p. c.	p. c.	p. c.	p. c.	
	3.04	1.02			1.75	16.30		43.87	7.98	33 44126
	1.65	1.04			1.91	7.35		60.70	7.16	63 44127
	2.59	0.88			1.78	16.20		47.95	7.60	34 44128
	2.64	0.88			1.71	15.35		48.10	7.58	33 44129
	3.20	1.07			1.87	16.75		42.37	8.20	36 44130

THOS. PARKER, INSPECTOR.

	2.98	2.06			1.80	15.60		54.42	10.36	60 48489
	2.40	0.90			1.91	18.20		46.30	7.15	37 48490
	2.34	0.95	3.40		2.85	11.20		45.76	7.80	41 48491
	1.58	0.50	1.95		3.33	14.25		38.33	3.60	12 48492
	3.31									49607
	3.26									49608
	3.09	1.17	3.01		1.51	54.05		6.94		38 49609
	7.51	6.07	10.45		4.40	27.45		11.10		80 49612
	8.05	6.58	10.50		4.47	28.55		12.10		82 49613
	5.59	2.29	6.80		4.17	20.60		7.43		41 49614

J. F. POWER, INSPECTOR.

Manufactured with Cocoa carefully selected for quality and flavour Guaranteed.	1.67									38275
Absolutely pure.	5.64	1.84	6.50		4.13	23.90		7.84		33 38276
Guaranteed pure soluble Cocoa.	7.95	6.47	10.40		4.34	28.95		11.92		81 38277
	6.80	4.85	9.10		4.82	27.70		10.08		71 38278
Absolutely pure and soluble	8.45	6.87	11.00		7.08	24.20		12.30		81 38279



Date of Collection.	Nature of Sample	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VANCOUVER—

1912.							
Feb. 15	Chocolate...	38280	Des Brisay, General Stores, Mission Jct., B.C.	½ lb..	25	D. Chirardalli, San Francisco, Cal.	
" 15	" ..	38281	C. A. Welsh, New Westminster, B.C.	½ " ..	25	Lowney & Co., Toronto.	
" 15	" ..	38282	London Muffin Co., Snythe St., Vancouver, B.C.	½ " ..	30	C. Charlesworth, Water St., Van.	

DISTRICT OF VICTORIA—

Feb. 27	Cocoa.....	47691	Windsor Grocery Co., Victoria, B.C.	3 pks	30	The Cowan Co., Ltd., Toronto.	
" 28	" .....	47692	The West End Grocery Co., Ltd., Victoria, B.C.	3 " ..	75	Ridgways, Ltd., London, Eng.	
" 29	" .....	47693	D. H. Ross, "	3 " ..	25	J. S. Fry, London, Eng.	
Mar. 1	" .....	47694	Copas & Young, Victoria, B.C.	3 " ..	75	Rowantree & Co., Ltd., York, Eng.	
" 1	" .....	47695	Wm. B. Hall, Victoria, B.C.	½ lb ..	30	H. D. Jong, Wormerveer, Holland.	
" 27	Chocolate...	47696	Windsor Grocery Co., Victoria, B.C.	1 " ..	50	Walter Baker & Co., Dorchester, Mass.	
" 28	" .....	47697	The West End Grocery Co., Ltd., Victoria, B.C.	1 " ..	35	Dom. Chocolate Works, Toronto.	
" 29	" .....	47698	D. H. Ross & Co., Victoria, B.C.	1 " ..	35	D. Ghirardellis, San Francisco, Cal.	
Mar. 1	" .....	47699	Copas & Young, Victoria, B.C.	½ " ..	25	The Cowan Co., Ltd., Toronto.	
" 6	" .....	47700	Harrison & McDonald, Victoria, B.C.	½ " ..	25	D. Ghirardellis, San Francisco, Cal.	



SESSIONAL PAPER No. 14  
AND CHOCOLATES.

Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS.										No. of Sample.
	On Air-Dry Original Material.										
	Ash.		Alkalinity of Ash as to Acid per 1 gram Chocolate and Cocoa.	Moisture.	Fat.		Cane Sugar.	Total Ash calculated to Fat and Moisture Free Sample.	Total Ash calculated to Fat, Moisture and Sugar Free Sample.	Percentage of Ash Soluble in Water.	
	Total.	Soluble in Water.			By Centri- fuge.	By Contin- uous Extrac- tion 16 hrs.					

Concluded.

	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	
Strictly pure.. .	2.77	1.96		1.92	14.20		58.50		10.91	71	38280
Absolutely pure....	2.66	0.95		2.55	15.20		47.80		7.72	36	38281
	2.84	2.06		2.15	14.75		56.08		10.51	70	38282

D. O'SULLIVAN, INSPECTOR.

	5.05										47691
"Ridgways"..	6.08	4.45	8.10	5.71	29.70				9.41	73	47692
Frys .. . . .	1.77										47693
Rowantries	7.71	6.40	10.40	4.80	28.00				11.52	83	47694
De Jong's....	7.76	5.47	10.20	6.45	26.95				11.65	70	47695
	3.32										47696
Canadian Beaver Chocolate	0.74	0.52		1.50	24.70		52.14		3.48	43	47697
"Eagle" Brand.	1.49	0.55		1.55	24.35		58.37		9.60	37	47698
"Cowans Perfection" . . .	3.86	1.48	4.98	4.60	31.10				6.30	38	47699
Ground Chocolate	3.02	2.05		2.89	15.40		55.18		11.38	67	47700



## APPENDIX H.

## BULLETIN No. 244—FRUIT JAMS.

OTTAWA, December 6, 1912.

WM. HIMSWORTH, Esq.,  
Acting Deputy Minister of Inland Revenue.

SIR,—I have the honour to hand you a report upon 158 samples purchased as jams in February and March of the present year. The results of analysis may be summarized thus :—

Addition of fruit juice acknowledged.....	18
Preservative or dye present.....	39
No explanatory statement.....	78
Sold as compound .....	3
Samples spoiled or broken .....	2
Containing glucose without acknowledgement .....	18
Total .....	158

Standards for fruit products were established under section 26 of the Adulteration Act, in October of this year, coming into force November 25, 1912. Circular G. 1044, containing the Order in Council in question, is as follows :—

## FRUIT AND FRUIT PRODUCTS.

1. Fruits are the clean, sound, edible, fleshy fructifications of plants, distinguished by their sweet, acid and ethereal flavours.

2. Dried fruit is the clean, sound product made by drying matured properly prepared fresh fruit in such a way as to take up no harmful substances; and conforms in name to the fruit used in its preparation.

3. Evaporated fruit is dried fruit in whose preparation artificial heat has been employed.

4. Evaporated apples shall contain not more than 27 per cent of moisture.

5. Canned fruit is the sound product made by sterilizing clean, sound, properly matured and prepared fresh fruit, by heating with or without sugar, and keeping in suitable clean, hermetically sealed containers; and conforms in name to the fruit used in its preparation.

6. Preserve is the sound product made from clean, sound, properly matured and prepared fresh fruit and sugar syrup, with or without spices and vinegar, and conforms in name to the fruit used in its preparation.

7. Jam, marmalade, is the sound product made from clean, sound, properly matured and prepared fresh fruit or fruit pulp and sugar, with or without spices or vinegar, by boiling to a semi-solid consistence: and conforms in name to the fruit used in its preparation.

8. Fruit butter is the sound product made from fruit juice, and clean, sound, properly matured and prepared fruit, boiled to a semi-solid mass of homogeneous consistence, with or without the addition of sugar and spices or vinegar and conforms in name to the fruit used in its preparation.



## SESSIONAL PAPER No. 14

9. Jelly, fruit jelly, is the sound, semi-solid gelatinous product made by boiling clean, sound, properly matured and prepared fresh fruit with water, concentrating the expressed and strained juice, to which sugar is added, and conforms in name to the fruit used in its preparation.

10. When jam, marmalade, fruit butter or jelly contains other fruit or fruit juice than that which gives its special name to the article, the fact of the presence of such other fruit shall be stated upon the label, in lettering as large and as distinct as that used in naming the fruit principally present. This requirement does not, however, apply to the use of fruit juice, up to the amount of ten (10) per cent of the weight of the jam, etc., used instead of water in the manufacture of the jam, etc.

11. When the sugar in preserve, jam, marmalade, fruit butter or jelly is wholly or partially replaced by glucose, or by any other substitute for sugar, the fact of such substitution shall be stated upon the label in plain lettering.

The standards above defined take effect on November 25, 1912.

Of course the samples now reported are not to be judged by the Standards above given.

After this date, it will be necessary to state the presence of glucose upon the label, whenever this article is present. Jams made with mixed fruits must also be properly described; although the addition of fruit juice up to ten per cent is not prohibited. Such juice, replacing water in the manufacture of the jam, doubtless adds to the value of the jam, and it is pleasing to note that in 18 samples examined, the maker has declared the presence of fruit juice.

Some makers of jam claim that the addition of small amounts of glucose improves the article. The question may be considered an open one, but it is fair to the purchaser that he should be advised of the presence of glucose, and this is now required by our standards. Several manufacturers who formerly used glucose, have given up its use within a year or two; and in such cases, it is only in their older product that we find glucose.

Under the circumstances I do not feel called upon to describe any of the samples now reported, as adulterated; although, had now existing standards been in force at the time of inspection, 18 samples would have been so described.

I beg to recommend the publication of this report as Bulletin No. 244.

I have the honour to be Sir,

Your obedient servant,

A. MCGILL,  
*Chief Analyst.*



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).	Solids
				Quantity.	Cents.	Manufacturer.	Furnisher.		Insoluble.

DISTRICT OF NOVA SCOTIA—

1912.									p. c.
Feb. 19	Fruit Jam	47031	Wentzells, Ltd., Halifax, N.S.	3 jars.	60	W. P. Hartley, London, Eng	Manuf'ers		1.52
" 20	"	47032	J. L. Archibald & Son, Halifax, N.S.	3 "	75	Cairns, Paisley, Scot.	Jno. Tobin & Co., Halifax, N.S.		2.77
" 21	"	47033	J. F. Crowe & Co., Ltd., Halifax, N.S.	3 "	56	C. E. Morton, London, Eng	Manuf'ers		1.92
" 22	"	47034	B. H. Dodge & Co., Kentville, N.S.	3 "	75	Wagstaffe, Hamilton, Ont.	H. R. Silver, Halifax, N.S.		2.34
" 23	"	47035	De Wolfe & Lamont, Kentville, N.S.	3 "	75	Aylmer Canning Co., Aylmer, Ont.	R. B. Seeton & Co., Halifax, N.S.		6.81
" 26	"	47036	Bauld Bros., Ltd., Halifax, N.S.	3 "	20	Chivers & Sons, Ltd., Cambridge, Eng.	Manuf'ers		4.20
" 26	"	47037	John Tolan & Co., Halifax, N.S.	3 "	45	Aylmer Canning Co., Aylmer, Ont.	"		5.06
" 26	"	47038	R. B. Calwell, Halifax, N.S.	3 "	35	E. D. Smith, Winona, Ont	"		2.86
" 26	"	47039	A. & W. Smith & Co., Halifax, N.S.	3 "	45	Simcoe Canning Co., Simcoe, Ont.	"		3.41
Mar. —	"	47040	H. R. Silver, Halifax, N.S.	3 "	nil	Wagstaffe, Hamilton, Ont.	"		2.63

DISTRICT OF PRINCE EDWARD ISLAND—

Feb. 7	Fruit Jam	46176	Auld Bros., Charlottetown, P.E.I.	3 pkgs	45	T. Upton Co., Ltd., Hamilton, Ont.			*
" 7	"	46177	"	3 "	60	Crosse & Blackwell, London, Eng.			3.80
" 15	"	46178	Brace McKay Co., Ltd., Summerside, P.E.I.	3 "	60	Jno. Buchanan & Bro., Ltd., Glasgow.			5.30
" 16	"	46179	R. T. Holman, Ltd., Summer's de, P.E.I.	3 "	60	Aylmer Canning., Hamilton, Ont.			6.00
" 16	"	46180	Waugh & Steeves, Sum'de, P.E.I.	3 "	1.05	Duerr's, Manchester, Eng.			0.85
" 19	"	46181	Beer & Goff, Ch'town, P.E.I.	3 "	75	J. A. Sharwood, Ltd., London, Eng			4.08

\* Not analyzed.



SESSIONAL PAPER No. 14

FRUIT JAMS.

Results of Analysis.											No. of Sample	Remarks and Opinion of the Chief Analyst.
per cent.		Water.	Polarization (nor- mal solution).			Residual cane sugar	Soluble matter other than cane sugar.	Preservatives	Dyes	Microscopic exam- ination.		
Soluble.	Total.		Direct	Invert.	Difference.							

R. J. WAUGH, INSPECTOR

p. c.	p. c.	p. c.				p. c.	p. c.				Strawberry tissues.		
69.62	71.14	28.86	+19.2	-23.4	42.6	32.11	35.51	None.	None.			47031	Genuine. Added fruit juice acknowledged on label.
71.20	73.97	26.03	+25.2	-25.7	48.5	36.9	34.64					47032	Genuine.
65.70	67.62	32.38	+3.2	-21.2	24.4	18.40	47.20				Plum tissues.	47033	
62.37	64.71	35.29	+1.1	-20.5	24.9	18.77	43.60	Salt.	Pre-sent.		Strawberry tissues.	47034	Contains preservative and is dyed otherwise genuine.
62.37	69.18	30.82	+2.8	-12.6	15.4	11.7	50.87	None.	None.		Rasp- berry tissues.	47035	Contains glucose. Is an old sample.
70.75	74.95	25.05	+17.9	-22.8	6.7	30.68	40.07				Green apple tissues and stones.	47036	Genuine. Small bottle of fruit. Dyed. acknowledged on label.
70.70	75.76	24.24	+48.9	-22.0	70.9	33.5	17.20				Peach tissues.	47037	Genuine.
64.10	66.95	33.04	+10.0	-20.7	30.7	23.14	49.54				Straw- berry tissues.	47038	
66.60	69.41	30.39	+11.7	-21.9	33.6	25.33	40.67	Salt.			Rasp- berry tissues.	47039	Contains sugar, salt, and yeast.
67.37	70.00	30.00	+11.9	-23.6	65.5	49.37	18.00	None.	Pre-sent.			47040	Contains dye. Other wise genuine.

WM. A. WEEKS, INSPECTOR.

												46176 Salt, sugar, and yeast.
68.90	72.70	27.30	+ 0.4	-22.2	22.6	17.91	51.86	None	None	Plum & Raspberry tissues & stones	46177	Genuine.
65.70	71.00	29.00	+ 5.0	-20.8	15.8	11.90	53.80	"	"	Plum tissues & stones	46178	
62.62	68.62	31.38	+ 9.3	-20.6	29.9	22.3	46.3			Rasp- berry tissues	46179	
64.50	65.35	31.65	+12.8	-22.0	34.8	26.23	38.27			Straw- berry tissues	46180	Genuine. Apple jelly acknowledged on label.
66.37	70.45	29.55	+ 7.3	-21.4	28.7	21.63	44.74			Rasp- berry tissues	46181	Genuine.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).	Solids Insoluble
				Quantity.	Cents.	Manufacturer.	Furnisher.		

DISTRICT OF PRINCE EDWARD ISLAND—

1912.									p. c.
Feb. 19	Fruit Jam...	46182	Beer & Goff, Ch'town, P. E. I.	3 pkgs	75	Wagstaffe, Lt 1 Hamilton, Ont.			1.26
" 27	"	46183	Coffin & Co., Ch'town, P. E. I.	3 "	60	Simcoe Cann- ing Co., Sim- coe, Ont.			7.44
" 27	"	46184	"	3 "	45	R. F. Madigan & Co., Ch' town, P. E. I.			1
" 27	"	46185	Joseph Crabbe Ch'town, P. E. I.	3 "	60	Lipton's, Eng- land.			2.34

DISTRICT OF NEW BRUNSWICK—

Feb. 6	Fruit jam...	45621	Baird & Peters, St. John, N. B.	3 jars.	25	The Lynn Val ley Canning Co., Simcoe, Ont.	Sold as Com- pound.	*	
" 7	"	45622	2 Barkers, Ltd. St. John, N. B.	3 "	54	Clarke Nickolls & Coombs, London, Eng	Plum		3.25
" 14	"	45623	Puddington, Wetmore Morrison, Ltd., St. John, N. B.	3 "	20	Chivers & S'ns, Ltd., Histon, Eng.	Strawberry...		3.71
" 27	"	45624	P. F. McKen- na, St. Ste- phen, N. B.	3 "	75	Wm. P. Hart- ley, London, Eng.	Raspberry....		2.70
" 27	"	45625	F. E. Rose, St. Stephen, N. B.	3 "	45	Lea's, Ltd., Simcoe, Ont.	Strawberry. .		5.53
Mar. 5	"	45626	G. T. Wheel- pley Estate, Fredericton, N. B.	3 "	75	E. D. Smith, Winona, Ont.	Peach.....		3.00
" 7	"	45627	D. R. Bedell, Andover, N. B.	3 "	75	John Stephen's Son & Co., Ltd., Glou- cester, Eng.	Raspberry. .		2.92
" 8	"	45628	Geo. T. Baird Co., Ltd., Perth, N. B.	3 "	66	Mac onochie Bros., Ltd., London, E: g	Raspberry and Currant.		3.50
" 13	"	55629	D. A. McBeath, Moncton, N. B.	3 "	75	E. D. Smith, Winona, Ont.	Strawberry. .		2.60
" 14	"	45630	George Tables, Newcastle, N. B.	3 "	75	Hudon, Hebert et Cie, Mon- treal.	Strawberry "Gazelle" Brand.		4.40

† Both samples fermenting and partly leaked out.      \* Sold as compound.



SESSIONAL PAPER No. 14

FRUIT JAMS.

Results of Analysis.														Remarks and Opinion of the Chief Analyst.
per cent.			Polarization (nor- mal solution.)			Residual cane sugar.	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical exam- ination.	No. of Sample.			
Soluble.	Total.	Water.	Direct.	Invert.	Difference.									
Concluded.														
p. c.	p. c.	p. c.				p. c.	p. c.							
65.69	66.86	33.14	+ 1.6	-22.0	23.6	17.80	47.80	None	Pre- sent	Goose- berry	46182	Genuine.		
64.37	71.81	28.19	+24.0	-19.7	43.7	32.94	31.43	Salic- ylic acid trace	ent slight	tissues.	46183	Trace sal- ylic acid.		
									None	Rasp- berry tissues	46184	Samples spoiled.		
69.59	71.84	28.16	+16.0	-22.6	38.6	29.19	49.49	None	None	Straw- berry tissues	46185	Genuine.		
J. C. FERGUSON, INSPECTOR														
												45621	Sol. as compound.	
68.00	71.25	28.75	+27.9	+3.8	24.1	18.16	49.84	None	None.	Plum tissues & very few sto- nes.	45622	Contains glucose.		
67.50	71.21	28.79	+26.4	-21.7	48.1	26.26	31.21			Straw- berry tissues	45623	Genuine. Fruit jam acknowledged on the label.		
70.37	73.07	26.93	+19.7	-23.0	33.7	25.40	44.97			Rasp- berry tissues	45624	Genuine. Fruit jam acknowledged on the label.		
55.75	61.28	38.72	+4.3	-17.0	21.3	16.05	39.70	Ben- zoic acid trace.		Straw- berry tissues.	45625	Trace of preservative otherwise genuine.		
62.25	65.25	34.75	+20.6	-18.8	39.4	29.70	34.55	None		Peach tissues.	45626	Genuine.		
68.90	71.82	28.18	+5.0	-22.5	27.5	20.73	48.17			Rasp- berry tissues	45627	Genuine. Fruit jam acknowledged on the label.		
67.70	71.20	28.80	-18.2	-22.0	3.8	2.86	64.84			Rasp- berry & currant tissues	45628	Genuine.		
64.37	66.97	33.03	-12.9	-21.4	8.5	6.41	57.96		"	Straw- berry tissues.	45629			
66.62	71.02	28.98	+25.7	-22.2	47.9	36.11	30.51			" "	45630			



Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).	Solids	
				Quantity	Cents.	Manufacturer.	Furnisher.		Insoluble.	

DISTRICT OF QUEBEC—

1912.										p. c.
Feb.	7	Fruit Jam..	37378	Arthur Drolet, 714 Rue St. Valier, Que.	3 pkgs	15	Chivers & S'ns, Histon, Cambridge, Eng.	J.B. Renaud Quebec.		3.41
"	7	" ..	87379	" ..	3 "	15	" ..	" ..		3.68
"	7	" ..	37380	" ..	3 "	75	Cairns, Paisley, Scotland.	Hudon & Herbert, Montreal.		3.16
"	7	" ..	37381	" ..	3 "	75	" ..	" ..		1.56
"	7	" ..	37382	" ..	3 "	75	" ..	" ..		3.18
"	7	" ..	37383	" ..	3 "	75	" ..	" ..		4.15
"	7	" ..	37384	" ..	3 "	75	Aylmer Canning Co., Hamilton.	Langlois & Paradis.		7.28
"	7	" ..	37385	" ..	3 "	75	" ..	" ..		6.79
"	7	" ..	37386	" ..	3 "	75	Ross and Laflamme.	Manufacturers.		2.90
"	7	" ..	37387	" ..	3 "	105	Duerr's, Manchester, Eng.	J.B. Renaud Quebec.		1.33

DISTRICT OF ST. HYACINTHE—

Feb.	20	Fruit jam..	39023	J. A. Baraby, St. Jean.	3 jars.	75	Robertson, Paisley, Scotland.	..... Blackberry ...		2.11
"	20	" ..	39024	G. Dupuis, St. Jean.	3 "	90	Vendor ..	..... Strawberry....		2.31
"	21	" ..	39025	Magog Co-op. Society.	3 "	60	Jos. Lamoureux, Montreal.	American Pure Food Co., Montreal.		"
"	22	" ..	39026	Theriault & Le Duc, Sherbrooke.	3 "	60	Aylmer Canning and Preserving Co., Hamilton.	..... Plum. ....		5.88
Mar.	20	" ..	39027	E. J. Pearson, Richmond.	3 "	75	J. Robertson & Sons, Manchester, Eng.	..... Strawberry. ...		1.

Not analysed.



SESSIONAL PAPER No. 14  
FRUIT JAMS.

Results of Analysis.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
per cent.		Water.	Polarization (normal solution).			Residual cane sugar.	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical exam- ination.		
Soluble.	Total.		Direct.	Invert.	Difference.							

F. X. W. E. BELAND, INSPECTOR.

p. c.	p. c.	p. c.				p. c.	p. c.					
60.87	73.28	26.72	+23.6	-23.0	46.6	35.13	34.74	None.	None.	Strawberry tissues.	37378	Genuine; addition of fruit jelly acknowledged.
60.30	72.98	27.02	+20.0	-23.0	43.0	32.41	36.89			Raspberry tissues.	37379	
68.75	71.91	28.09	-13.7	-22.5	8.8	6.63	62.12				37380	
64.50	66.06	33.91	+9.7	-20.8	30.5	23.00	41.50			Apple tissues.	37381	
62.12	65.30	34.70	-14.2	-19.8	5.6	1.22	57.90			Black currant tissues.	37382	
59.62	63.77	36.23	+4.4	-18.9	23.3	17.56	47.60			Plum tissues.	37383	
65.11	72.39	27.61	+23.0	-19.4	42.4	31.8	23.21			Strawberry tissues.	37384	
61.26	68.05	31.45	+21.0	-16.2	37.2	28.0	34.36			Raspberry tissues.	37385	Samples received broken and partly leaked out.
68.62	71.52	28.48	+11.6	-21.7	32.7	24.65	43.97			Fruit and lemon tissues.	37386	Genuine.
66.50	67.83	32.17	+17.3	-22.8	40.1	30.23	26.27			Strawberry tissues.	37387	Genuine. Apple jelly acknowledged.

J. C. ROULEAU, INSPECTOR.

71.00	73.11	26.89	+19.6	-24.7	44.3	33.40	37.6	None.	None.	Blackberry tissues.	39023	Genuine.
44.62	46.93	33.07	-9.6	-9.7	18.7	14.10	30.52			Strawberry tissues.	39024	A preserved fruit not a jam. Genuine.
...	...	...	...	...	...	...	...			...	39025	Sold as compound.
65.10	70.98	29.02	+9.5	-19.6	29.1	21.9	43.20	None.	None.	Plum tissues and stones.	39026	Genuine.
69.10	70.74	29.26	-20.4	-22.5	12.9	32.34	36.76	Salicylic acid.	slightly dyed	Strawberry tissues.	39027	Contains Salicylic acid and is dyed. Otherwise genuine.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).	Solids	
				Quantity.	Cents.	Manufacturer.	Furnisher.		Insoluble.	

DISTRICT OF ST. HYACINTHE—

1912.										p.c.
Mar. 22	Fruit jam ..	39028	Basinet & Bro-deur, St. Hyacinthe.	3 jars.	75	L.Noel & Sons, London,Ltd. S.E.		Raspberry ....		4.74
" 22	" ..	39029	J. B. J. Phaneuf, St. Hyacinthe.	3 "	90	E. Chaput, L. Egypte.		Strawberry...		7.48
" 23	" ..	39030	A. Brodeur, St. Hyacinthe.	3 "	75	Chivers & Sons Ltd., Eng.		Raspberry . . .		2.54
" 23	" ..	39031	J.B. St.Pierre, St. Hyacinthe.	3 "	75	A. Cairns & Sons, Paisley, Scotland		Peach ... ..		1.87

DISTRICT OF MONTREAL—

Feb. 13	Fruit jam...	40811	L. Chaput, Fils et Cie., Ltd., De Brisbois St., Montreal	3 jars.	53	Aylmer Canning Co., Ltd.		Raspberry ....		5.50
" 13	" ..	40812	" ..	3 "	54	E. D. Smith..		" ..		5.11
" 13	" ..	40813	" ..	3 "	52	T. Upton Co., Ltd.		" ..		6.46
" 13	" ..	40814	Mrs. Luke, 38 Victoria St., Montreal.	3 "	30	Vendor .....		Plum ....		5.53
" 13	" ..	40815	" ..	3 "	45	" ..		Black Currant		6.90
" 13	" ..	40816	" ..	3 "	45	" ..		Strawberry. .		3.57
" 13	" ..	40817	St. Louis Preserving Co., Ltd., Montreal.	3 "	60	Vendors...		" ..		1.33
" 13	" ..	40818	" ..	3 "	60	" ..		Raspberry ....		6.90
" 13	" ..	40819	" ..	3 "	60	" ..		Plum... ..		1.66
" 14	" ..	40820	W. Schwartz, 100 St. Catherine Street West, Montreal.	3 "	60	Aylmer Canning Co., Ltd.		" ..		6.45



SESSIONAL PAPER No. 14

FRUIT JAMS.

Results of Analysis.

per cent.		Polarization (normal solution.)					Reduced cane sugar	Soluble matter other than cane sugar	Preservatives	Dyes	Microscopic examination.	No. of Sample	Remarks and Opinion of the Chief Analyst.
Soluble	Total	Water	Direct	Invert	Difference								

Continued.

p.c.	p.c.	p.c.	p.c.		p.c.		p.c.	p.c.	None	None	Rasp- berry tissues	No.	Remarks and Opinion of the Chief Analyst.
65.90	70.64	29.36	0.6	-15.2	14.6	11.00	54.90	None	None	None	Rasp- berry tissues	40828	Contains glucose. Old sample.
50.75	58.23	41.77	6.7	-16.0	9.3	7.01	43.74					40829	Genuine.
68.62	71.16	28.84	+5.7	-22.0	27.7	20.88	47.41					40830	Genuine. Fruit jelly and fruit colors added.
67.87	69.74	30.26	+12.2	-22.6	34.8	26.23	41.64				Plum tissues	40831	Genuine.

J. J. COSTIGAN, INSPECTOR

50.10	64.60	35.40	+8.8	-19.5	28.3	21.0	38.10	None	None		Rasp- berry tissues	40811	Genuine.
62.00	67.11	32.89	+7.8	-21.2	29.0	21.86	40.14					40812	
56.87	63.33	36.67	+15.9	-18.9	34.8	26.23	30.64					40813	
55.87	61.40	38.60	-13.9	-15.1	1.2	0.90	54.97				Plum tissues	40814	
55.37	62.27	37.73	11.1	-16.6	5.5	4.14	51.23				Black- Curr- rant tissues	40815	
59.50	63.07	36.93	-13.6	-18.5	4.9	3.70	55.80				Straw- berry tissues	40816	
48.25	60.58	30.42	+67.6	+24.8	42.8	32.25	36.00	Sali- cylic acid.				40817	Contains glucose and a preservative.
61.80	68.70	31.30	+54.5	+21.1	33.4	25.18	36.62	"			Rasp- berry tissues	40818	
68.90	70.50	29.50	+47.8	+21.4	26.4	19.90	49.00	"			Plum tissues only.	40819	
65.40	66.95	33.05	+9.6	-15.2	24.8	18.7	41.70	None			Plum tissues and stones	40820	Contains glucose. Old sample.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).	Solids
				Quantity.	Cents.	Manufacturer.	Furnisher.		Insoluble.
DISTRICT OF OTTAWA—									
1912.									p. c.
Feb. 5	Fruit Jam..	50141	The A. B. Scott Co., Smith's Falls.	3 jars.	105	Duerr's, Eng-land.	Robertson & Nicolle, Smith's Falls.	Raspberry Warranted Pure.	1·00
" 7	" ..	50142	A. Edwards, Cornwall.	3 "	45	Lea's, Ltd., Simcoe, Ont	Mfrs.....	Strawberry absolutely pure.	3·38
" 9	" ..	50143	John Simpson & Son, Alexandria.	3 "	75	Robertson's Paisley, Scot-land.	Mathewson's Sons, Mon-treal.	Green gage..	4·54
" 12	" ..	50144	R. Richardson, Preston St., Ottawa.	3 "	75	E. D. Smith, Winona, Ont	Unknown...	Strawberry....	4·13
" 13	" ..	50145	P. J. Campbell Renfrew.	3 "	45	Simcoe Can-ning Co. Sim-coe, Ont.	W. J. Craig, Kingston.	" .....	4·71
" 19	" ..	50146	Jos. P. Vali-quette, Dal-housie St., Ottawa.	3 "	54	Dom. Cannery Ltd., Mont-real.	Major's Ltd. Ottawa.	Peach.....	5·67
" 19	" ..	50147	L. Malette, Dalhousie St., Ottawa	3 "	60	John Gray & Co., Ltd., Glasgow.	Mfrs.. . . .	Strawberry....	1·37
" 19	" ..	50148	Jas. Mundy, Grocer, Ot-tawa.	3 "	75	C. & E. Morton London, Eng	" .....	Black Currant	3·14
" 19	" ..	50149	" ..	3 "	75	" ..	" .....	Red Currant..	3·92
" 20	" ..	50150	Bryson Gra-ham Ltd., Ottawa.	3 "	75	Cairns, Pais-ley, Scotland	" .....	Plum.....	2·86
DISTRICT OF KINGSTON—									
Feb. 5	Fruit Jam..	49541	H. M. Stover, Kingston.	3 pkgs	45	Simcoe Can-ning Co.	.....	Strawberry....	3·54
" 5	" ..	49542	J. Lee, Kings-ton.	3 "	75	Millar Co. Ltd. Belfast, Ire-land.	.....	Raspberry....	4·23
" 5	" ..	49543	W. J. Nesbitt, Kingston.	3 "	75	J. Wagstaffe, Ltd.	.....	" .....	4·25
" 5	" ..	49544	H. A. Smith, Kingston.	3 "	35	E. D. Smith, Winona, Ont	.....	Crab apple....	Trace
" 6	" ..	49545	Wm. Davies, Kingston.	3 "	60	Chivers & S'ns, Histon, Cam-bridge, Eng.	.....	Strawberry....	2·65
" 6	" ..	49546	A. Glover, Kingston.	3 "	75	Crosse & Black-well, London, Eng.	.....	Raspberry....	3·00



SESSIONAL PAPER No. 14  
FRUIT JAMS.

Results of Analysis.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
per cent.		Water.	Polarization (nor- mal solution).			Residual cane sugar	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical exa- mination.		
Soluble.	Total.		Direct.	Invert.	Difference.							

J. A. RICKEY, INSPECTOR.

p. c.	p. c.	p. c.				p. c.	p. c.					
65.37	66.37	33.65	-3.6	22.0	18.4	13.87	51.50	None.	(None	Strawberry tissues.	50141	Genuine. Apple jelly acknowledged
58.87	62.25	37.75	+4.3	-18.1	22.4	16.89	41.98	Ben-zoic acid.	-	-	50142	Contains a preservative. Otherwise genuine.
64.37	68.91	31.09	+6.4	-18.7	25.1	18.92	45.45	None	-	Plum tissues.	50143	Genuine.
58.75	62.88	37.12	11.0	-18.6	7.6	5.73	53.02	-	-	Strawberry tissues.	50144	-
67.60	72.31	27.69	-39.3	23.1	62.4	47.07	20.53	Salicylic acid.	-	-	50145	Preservative. Otherwise genuine
72.00	77.67	22.31	+39.0	-22.0	61.0	45.9	26.10	None	-	Peach tissues	50146	Genuine.
67.12	68.49	31.51	-5.3	21.4	16.1	12.14	51.98	-	-	Strawberry tissues.	50147	-
68.37	71.51	28.49	+3.2	22.0	25.2	19.00	49.37	-	-	Current tissues	50148	-
68.50	72.42	27.58	+1.4	-23.1	24.5	18.47	50.03	-	-	-	50149	-
66.75	69.61	30.39	+5.3	-20.9	26.2	19.75	47.00	-	Pre-sent.	Plum tissues & stones	50150	Dyed. Otherwise genuine.

LAS. HOGAN, INSPECTOR.

69.75	73.29	26.71	+40.5	-23.4	63.9	48.17	21.58	Salicylic acid.	None	Strawberry tissues.	49541	Preservative present. Otherwise genuine.
66.87	71.10	28.90	+5.7	-9.7	15.4	11.61	55.26	None.	-	Rasp-berry tissues	49542	Contains glucose.
66.87	71.12	28.88	+18.6	-23.1	41.7	31.44	35.43	-	Pre-sent.	Rasp-berry & Currant tissues.	49543	Dyed. Otherwise genuine.
70.12	70.12	29.88	+12.1	-26.7	38.8	28.95	41.17	-	None	Crab apple jelly	49544	Genuine.
70.37	73.02	26.98	+17.3	-23.0	40.3	30.37	40.00	-	-	Strawberry tissues	49545	Genuine. Fruit jelly acknowledged
64.10	67.10	32.90	+6.1	-21.2	27.3	20.58	43.52	-	-	Rasp-berry tissues	49546	Genuine.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).	Solids	
				Quantity.	Cents.	Manufacturer.	Furnisher.		Insoluble.	

DISTRICT OF KINGSTON—

1912.									p. c.
Feb.	6	Fruit Jam..	49547 J. Gilbert, Kingston.	3 pkgs	75	Clark, Nickells & Coombs, London.	.....	Black Currant	2.74
"	7	"	49548 H.E. Fairfield, Belleville.	3 "	30	Lea's, Simcoe.	.....	Strawberry....	3.85
"	7	"	49549 J. Hilton, Belleville.	3 "	60	J. Robertson & Sons, Paisley.	.....	Raspberry...	2.52
"	7	"	49550 Geo. Pearson, Belleville.	3 "	105	Duerr's Manchester.	.....	Strawberry....	1.28

DISTRICT OF TORONTO

Feb.	5	Fruit Jam..	49317 The Canada Preserving Co., Pinest., Hamilton.	3 jars.	50	Vendors.....	Graham's Pure Raspberry Jam.	5.18
"	5	"	49318 The T. Upton Co., Ltd., Hamilton.	3 "	50	"	Upton's Pure Strawberry Jam.	1.80
"	5	"	49319 Wagstaffes, Ltd., Hamilton.	3 "	60	"	Wagstaffe's fine Old English Pure Peach Jam.	1.80
"	5	"	49320 Aylmer Canning Co., Ltd., Hamilton.	3 "	38	Simcoe Canning Co., Simcoe.	Strawberry. Guaranteed absolutely pure.	3.24
"	6	"	49322 E. D. Smith, Winona.	3 "	42	Vendor	Raspberry....	2.20
"	6	"	49323 Bell Fruit Farms, Ltd., Grimsby.	3 "	45	Vendors.....	Bell Brand Raspberry Jam.	6.32
"	14	"	49324 The T.A. Lytle Co., Ltd., 106 Sterling rd., Toronto.	3 "	48	"	Pure Strawberry Jam.	3.73
"	21	"	49325 T. H. Brown, Collingwood	3 "	30	Lea's, Ltd., Simcoe.	Absolutely Pure Strawberry Jam.	3.60
"	28	"	49326 Frank Giles, Yonge st., Toronto.	3 "	60	Mrs. A. E. Scott, Toronto	Home made Pure Raspberry Jam.	2.80
"	28	1	49400 Wilson Clyne, 317 Parliament st., Toronto.	3 "	45	Simcoe Canning Co., Simcoe.	Absolutely Pure Strawberry Jam.	2.20



SESSIONAL PAPER No. 14

FRUIT JAMS.

Results of Analysis.

per cent.		Water.	Polarization (normal solution).			Reduced viscosity.	Solids other than cane sugar.	Preservatives.	Dye.	Microscopical examination.	Net weight.	Remarks and Opinion of the Chief Analyst.
Soluble.	Total.		Direct.	Invert.	Difference.							
Continued.												
p. c.	p. c.	p. c.				p. c.	p. c.					
65.90	68.64	31.36	+11.0	-21.7	32.7	21.67	41.25	None.	None.	Black Currant	4547	Genuine.
59.00	62.85	37.15	-10.4	-18.9	8.5	6.40	2.00	Berry		Strawberry tissues	4548	Preservative. Otherwise genuine.
69.87	72.39	27.61	+22.0	23.1	45.1	34.00	20.87	acid.		Raspberry	4549	Genuine.
67.25	68.53	31.47	+3.8	-23.0	26.8	20.20	47.00			Strawberry	4550	Genuine apple jelly acknowledged on label.

H. J. DAGER, INSPECTOR.

63.90	69.08	30.92	+21.6	-21.0	43.7	32.87	31.10	Benzoic acid.	None.	Raspberry	49317 A preservative. Otherwise genuine.
63.12	64.92	35.08	+26.3	-16.2	42.5	31.70	31.62			Strawberry	49318
67.50	69.30	30.70	+43.9	-24.5	68.4	31.50	15.90	Vanillic acid.		Peach	49319
67.50	70.74	29.26	+31.0	-23.0	54.0	40.70	25.80	None.	Preservative.	Strawberry tissues	49320 A dye. Otherwise genuine.
61.50	63.70	35.30	+18.9	-20.9	39.8	30.00	31.50			Raspberry	49321
62.37	68.69	31.31	+23.6	-21.5	55.1	41.53	29.84				49322
54.30	58.03	41.97	+21.2	-16.5	37.7	28.42	25.85	Benzoic acid and trace.	None.	Strawberry tissues	49324 Trace preservative. Otherwise genuine.
58.62	62.22	37.78	-11.0	-18.2	7.2	5.42	73.90	Benzoic acid.			49325 Preservative. Otherwise genuine.
64.10	66.90	33.10	- 7.7	-22.2	14.5	19.95	53.17	None.	Present.	Raspberry tissues	49326 Dyed. Otherwise genuine.
64.87	67.07	32.93	+10.7	-20.9	31.6	23.82	41.05		None.	Strawberry tissues.	49400 Genuine.



Date of Collection.	Nature of Sample.	No. of Sample.	Nature and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion)	Solids	
				Quantity.	Cents.	Manufacturer.	Furnisher.		Insoluble.	

DISTRICT OF LONDON—

1912.									p. c.
Feb 20	Fruit Jam.	47897	J. P. Sheppard, Clinton.	3 jars.	75	T. Upton Co., Ltd., Hamilton.		Labelled. Upton's Pure Strawberry Jam.	4.43
" 20	"	47898	"	3 "	75	"		Raspberry. ....	6.88
" 21	"	48207	McGuire & Co., Seaforth.	3 "	45	Lea's, Ltd., Simcoe.		Strawberry....	3.64
" 21	"	48209	H. Livingston, Seaforth.	3 "	75	Vendor .....		Cranberry preserves.	2.68
" 22	"	48214	Walsh Bros., Stratford.	3 "	90	Quert's, Manchester, Eng.		Raspberry....	3.1
" 22	"	48215	"	3 "	90	"		Black Currant	5.06
1 22	"	48216	A. Beattie & Co., Stratford	3 "	75	Maconochie, London, Eng.		Raspberry...	3.55
" 22	"	48221	Oman & Malhion, Stratford	3 "	60	Wags'ffe, Ltd. Hamilton.		"	2.31
" 22	"	48222	Barnsdale Trading Co., Stratford.	3 "	60	T. Upton Co., Ltd., Hamilton.		"	7.44
" 24	"	48227	A. Beattie & Co., St. Mary's	3 "	60	Crosse & Blackwell, London, Eng.			0.47

DISTRICT OF WINDSOR—

Feb. 12	Fruit Jam..	47866	W. H. Tricker, Sarnia.	3 jars.	75	Wagstaffe, Ltd. Hamilton.		Blackberry Preserves.	4.72
" 12	"	47868	R. Wanless & Co., Sarnia.	3 "	60	Maconochie's, London, Eng.		Raspberry Jam	3.26
" 12	"	47870	A. H. Gammon & Son, Sarnia	3 "	75	Canada Preserving Co., Hamilton.		Graham's "Lily" Brand Pure Strawberry Jam.	5.46
" 13	"	47877	Wm. Cross, Strathroy.	3 "	75	Lea Pickling & Preserving Co., Simcoe.		Strawberry Preserves.	3.03
" 6	"	48078	A. J. Clark & Co., London.	3 "	75	Cairns, Paisley Scotland.		Raspberry Jam.	3.53
" 7	"	48082	E. S. English, London.	3 "	75	Wagstaffe, Ltd. Hamilton.		Pure Raspberry Jam.	3.60



## SESSIONAL PAPER No. 14

## FRUIT JAMS.

Results of Analysis.													No. of Sample.	Remarks and Opinion of the Chief Analyst.
per cent.		Water.	Polarization (normal solution).			Residual cane sugar.	Soluble matter other than cane sugar.	Preservative.	Dyes.	Microscopical examination.				
Soluble.	Total.		Direct.	Invert.	Difference.									
JNO. TALBOT, ACTING INSPECTOR.														
p. c.	p. c.	p. c.				p. c.	p. c.							
61.90	66.33	33.67	- 7.4	-20.1	27.5	20.73	11.17	Ben- zoic acid.	None.	Straw- berry tissues.	47897	A preservative. Ot- herwise genuine.		
55.87	62.75	37.25	+ 5.1	-18.2	23.3	17.56	38.31	Trace of ben- zoic acid.		Rasp- berry tissues.	47898	Trace preservative. Otherwise genuine.		
61.37	65.01	34.99	-12.9	-19.2	6.3	4.75	56.62	Ben- zoic acid.		Straw- berry tissues.	48207	Preservative. Other- wise genuine.		
44.25	46.93	53.07	-12.7	-13.0	0.3	0.22	44.03	None.		Cran- berry tissues.	48209	Genuine. A preserve.		
67.75	70.91	29.09	+28.9	22.6	51.5	38.82	28.25			Rasp- berry tissues.	48214	Genuine.		
61.50	66.56	33.44	+ 3.0	-19.7	22.7	17.11	44.39			Current tissues.	48215			
62.87	66.42	34.58	+18.4	+12.4	6.0	4.52	58.35			Rasp- berry tissues.	48216	Contains glucose.		
65.25	67.56	32.44	+31.7	-22.5	54.2	40.86	24.39		Pre- sent.		48221	Dyed. Otherwise ge- nuine.		
56.50	63.94	36.06	+ 8.4	-18.6	27.0	20.35	36.15	Trace of ben- zoic acid.	None.		48232	Trace preservative. Otherwise genuine.		
65.25	65.72	34.28	-10.4	-22.0	11.6	8.74	50.51	None.		Pine apple tissues.	48227	Genuine.		

## JNO. TALBOT, INSPECTOR.

24.25	28.97	71.03	-7.3	-7.3	0.0	0.0	24.25 Salicylic acid.	None.		Black-berry tissues.	47866	Preservative. Is a preserve.
65.60	68.86	31.14	+11.2	-22.2	33.4	25.18	40.42 None.	Pre-sent.		Rasp-berry tissues.	47868	Dyed. Otherwise genuine.
58.25	63.71	36.29	-2.0	-18.5	16.5	12.41	45.81 Benzoic acid.	None.			47870	Preservative. Otherwise genuine.
61.25	64.28	35.72	0.0	-20.1	20.1	15.15	46.10 None.			Strawberry tissues.	47877	Genuine.
68.00	71.53	28.47	-12.0	-21.5	9.5	7.16	60.84			Rasp-berry tissues.	48078	
67.25	70.85	29.15	+24.5	-23.9	48.4	36.48	30.77	Pre-sent slight.			48082	Trace dye. Otherwise genuine.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).	Solids	
				Quantity	Cents.	Manufacturer.	Furnisher.		Insoluble.	

DISTRICT OF WINDSOR—

1912.									p. c.
Feb.	7	Fruit Jam .	48085	E. & O. Boug., London.	3 jars.	30	Lea's, Ltd., Simcoe.	Strawberry Preserves.	3.57
"	7	"	48089	G. S. Pettit, London East	3 "	75	Wagstaffe, Ltd. Hamilton.	Black Currant Jam.	2.08
"	8	"	48092	R. W. James, London East	3 "	60	E. D. Smith, Winona.	"	3.70

DISTRICT OF MANITOBA—

Mar.	11	Fruit Jam.	47489	J. Grant, grocer, Winnipeg.	3 pks.	45	E. D. Smith, Winona, Ont		3.10
"	11	"	47490	"	3 "	75	Chivers & Sons, Ltd., Histon, Cambridge, Eng.	Strawberry....	4.40
"	11	"	47491	"	3 "	75	L. Noel & Sons, Ltd., London	Raspberry....	4.77
"	11	"	47492	S. Goddard, grocer, Winnipeg.	3 "	75	Jno. Buchanan & Bros., Ltd., Glasgow.	Strawberry....	1.24
"	11	"	47493	"	3 "	75	Jas. Robertson & Sons, Manchester, Eng	"	2.23
"	11	"	47494	"	3 "	75	W. P. Hartley, Liverpool, Eng.	Black Currant	3.03
"	11	"	47495	W. J. Kennedy, grocer, Norwood Grove.	3 "	105	E. D. Smith, Winona, Ont	Pear....	1.72
"	11	"	47496	"	3 "	75	Jno. Buchanan & Bros., Ltd., Glasgow.	Plum.....	2.71
"	11	"	47497	"	3 "	75	"	Apricot...	0.88
"	11	"	47498	Francis Bros., grocers, Norwood Grove.	3 "	75	Clarke Nickalls & Coombs London.	Strawberry...	3.15



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## FRUIT JAMS.

Results of Analysis.												Remarks and Opinion of the Chief Analyst.
per cent.		Water.	Polarization (normal solution).			Residual cane sugar.	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.	No. of Sample.	
Soluble.	Total.		Direct.	Invert.	Difference.							

Continued.

p. c.	p. c.	p. c.				p. c.	p. c.					
57.62	61.19	38.81	9.9	-17.6	7.7	5.89	51.82	Trace of ben- zoic acid.	None.	Straw- berry tissues.	4808	Trace preservative. Otherwise genuine.
65.09	67.08	32.92	+ 5.1	-21.9	27.0	20.30	41.70	None.		Black currant tissues.	4809	Genuine.
59.87	63.57	36.43	+ 6.6	-21.4	28.0	21.10	38.77				4807	

## A. C. LARIVIERE, INSPECTOR.

59.50	62.06	37.40	9.5	-16.5	7.0	5.88	51.22	None.	None.	Plum tissues.	4748	Genuine.
67.00	72.00	28.00	+30.5	-22.5	53.0	39.95	27.65			Straw- berry tissues.	47490	Fruit jelly acknowledged on the label.
65.89	70.57	29.43	+ 6.6	-15.1	21.7	16.36	49.44			Rasp- berry tissues.	47491	Containing glucose.
67.37	68.61	30.39	+12.4	-21.7	31.1	25.70	41.07	Pre- sent.		Straw- berry tissues.	47492	Dye. Otherwise ge- nuine; fruit jelly acknowledged.
67.70	69.93	30.07	+20.0	-22.2	12.2	31.80	35.99	Salicy- lic acid trace.	Slightly dyed.		47493	Trace salicylic acid and dye. Other- wise genuine.
69.20	72.33	27.67	+11.4	-23.0	34.4	25.95	43.37	None.	None.	Current tissues.	47494	Genuine.
68.62	70.34	29.66	+ 4.1	-22.8	26.9	20.28	47.34			Pear tissues.	47495	
68.75	71.46	28.54	+ 0.8	-21.5	22.3	16.80	51.95	Pre- sent.		Plum tissues & very few stones.	47496	Dye. Otherwise ge- nuine with fruit jelly acknowledged
68.50	69.38	30.62	+16.6	-21.9	38.5	29.02	39.48		None.	Apricot tissues.	47497	Genuine with fruit jelly acknowledged
66.12	69.27	30.73	+12.2	-21.9	34.1	25.70	40.42			Straw- berry tissues.	47498	Genuine. Fruit jelly acknowledged.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).	Solids	
				Quantity.	Cents.	Manufacturer.	Furnisher.		Insoluble.	

DISTRICT OF CALGARY—

1912.										p. c.
Mar.	6	Fruit Jam..	44141	Capitol Mercantile Co., Edmonton.	3 bots.	75	Wagstaffe, Ltd Hamilton.			5.00
"	7	" ..	44142	Hudson Bay Co., Edmonton.	3 "	75	Empress Mfg. Co., Ltd., Vancouver.			5.44
"	7	" ..	44143	Acme Co., Edmonton.	3 "	90	Crosse & Blackwell, London Eng.			5.32
"	8	8 ..	44144	Hallier & Aldridge, Edmonton.	3 "	75	Chivers & Sons, Ltd., Histon Cambridge, Eng.			4.80
"	8	" ..	44145	J. H. Morris Co., Ltd., Edmonton.	3 "	75	Kootenay Jam Co., Ltd., Nelson, B.C.			3.94
"	14	" ..	44146	L.T. Mewburn & Co., Ltd., Calgary.	3 jars.	60	Wagstaffe, Ltd Hamilton.			2.47
"	14	" ..	44147	Georgeson Co., Ltd., Calgary	3 "	65	E. D. Smith, Winona, Ont			3.90
"	14	" ..	44148	Campbell, Wilson & Horne, Calgary.	3 "	60	W.P. Hartley, Liverpool, Eng.			1.23
"	14	" ..	44149	The Alberta Empress Co., Ltd., Calgary	3 "	60	Empress Mfg. Co., Ltd., Vancouver.			2.80
"	14	" ..	44150	Hudson Bay Co., Calgary	3 "	75	E. D. Smith, Winona, Ont			5.35

DISTRICT OF NELSON—

Feb.	13	Fruit Jam..	48496	England & Son, Kamloops, B.C.	3 bots.	75	Wagstaffe, Ltd Hamilton.			2.72
"	13	" ..	48497	" ..	3 jars.	75	Crosse & Blackwell, London Eng.			2.27
"	13	" ..	48498	" ..	3 "	75	" ..			0.84
"	13	" ..	48499	" ..	3 "	75	" ..			3.96
"	13	" ..	49616	Wilson Grocery Co., Kamloops, B.C.	3 "	90	Empress Mfg. Co., Vancouver.			3.50
"	13	" ..	49617	" ..	3 "	90	" ..			5.00



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## FRUIT JAMS.

## Results of Analysis.

per cent.				Polarization (normal solution).		Reduced cane sugar.	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.	Sample No.	Remarks and Opinion of the Chief Analyst.
Soluble.	Total.	Water.	Dext.	Invert.	Difference.							

## R. W. FLETCHER, INSPECTOR.

p. c.	p. c.	p. c.				p. c.	p. c.					
63.50	68.90	31.10	+ 7.3	-20.9	28.2	21.26	42.64	None.	None.	Rasp- berry tissues.	44141	Genuine.
65.56	70.94	29.06	+ 9.3	-21.7	31.0	23.37	42.13			Rasp- berry tissues.	44142	
67.20	72.52	27.48	+ 7.1	-21.7	28.8	21.70	45.50				44143	
63.50	68.50	31.70	- 5.4	-19.5	14.1	40.65	52.87			Plum tissues.	44144	
69.50	73.24	26.76	+24.3	-11.5	35.0	27.06	42.24			Straw- berry tissues.	44145	Genuine.
69.50	71.97	29.05	+29.6	-23.4	33.6	30.96	29.76	Pre- sent.		currant tissues.	44146	Dyed. Otherwise ge- nuine.
60.87	64.77	35.23	+ 9.7	-22.3	32.0	24.12	36.75	None.			44147	Genuine.
68.90	70.13	29.87	+21.4	-22.6	14.9	33.17	35.73			Straw- berry tissues.	44148	Genuine. Fruit part acknowledged.
67.20	70.00	30.00	+30.0	-22.8	52.8	20.80	27.40				44149	Genuine.
61.62	66.97	33.03	-11.1	-19.5	8.4	6.35	55.29			Ginger berry tissues.	44150	

## THOS. PARKER, INSPECTOR

66.62	69.34	30.66	-37.5	-23.1	60.6	45.68	20.94	None.	Pre- sent.	Rasp- berry tissues.	48496	Dyed. Otherwise ge- nuine.
69.00	71.27	28.73	+27.9	-23.1	51.0	38.45	30.55	None.		Straw- berry tissues.	48497	Genuine.
66.75	67.59	32.41	- 6.3	-20.0	13.7	10.33	53.42			Plum tissues.	48498	
59.59	63.45	36.54	- 6.6	-19.3	12.7	9.57	49.93			Rasp- berry tissues.	48499	
65.70	69.20	30.80	+28.9	-21.9	50.8	38.30	27.40			Straw- berry tissues.	49616	
66.62	71.62	28.38	+15.7	-22.6	38.3	28.87	37.75			Rasp- berry tissues.	49617	



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report (Is not an expression of opinion).	Solids	
				Quantity.	Cents.			Manufacturer.	Furnisher.

DISTRICT OF NELSON

1912.								p. c.
Feb. 13	Fruit Jam..	49618	Wilson Grocery Co., Kamloops, B.C.	3 bots.	90	Empress Mfg. Co., Vancouver.		1 35
" 13	" ..	49619	" ..	3 "	75	Chivers & Sons, Histon, Eng.		5 30
" 13	" ..	49620	" ..	3 "	75	" ..		6 52
" 13	" ..	49621	" ..	3 "	75	" ..		7 60

DISTRICT OF VANCOUVER—

Feb. 14	Fruit Jam..	38295	B. T. Malcolm, Chilliwack, B.C.	3 jars.	75	Norfolk Preserving Co., Norfolk, Ont.	Guaranteed Pure Plum Jam.	6 53
" 14	" ..	38296	Ashwell Dept. Store, Chilliwack, B.C.	3 "	75	Empress Mfg. Co., Vancouver.	Red Currant..	2 30
" 14	" ..	38297	Lillie's Cash Grocery, Chilliwack, B.C.	3 "	75	E. D. Smith, Winona, Ont.	Raspberry...	4 26
" 14	" ..	38298	Jas. Plumridge Mission Jet., B.C.	3 "	75	Kootenay Jam Co., Mission City, B.C.	Guaranteed Pure Fruit & Sugar only.	3 11
" 19	" ..	38299	Ayling & Swain New Westminster, B.C.	3 "	75	Empress Mfg. Co., Vancouver.	Strawberry...	3 04
" 20	" ..	38300	W. H. Walsh Co., Ltd., Eburne, B.C.	3 "	75	Kootenay Jam Co., Nelson, B.C.	Gurante'd pure fruit & sugar only.	5 47
" 20	" ..	38301	G. D. Richards Eburne, B.C.	3 "	1.05	Duerr's, London, Eng.	Raspberries & cane sugar warranted strictly pure.	2 16
" 21	" ..	38302	A. & C. Grocery Vancouver, B.C.	3 "	60	Chivers & Sons, Ltd., Cambridge, Eng.	Improved with a small portion of fruit jelly.	3 64
" 21	" ..	38303	Dominion Grocery, Vancouver, B.C.	3 "	75	Crosse & Blackwell, London Eng.	Prepared from selected fruits	2 60
" 21	" ..	38304	David Spencer, Ltd., Vancouver, B.C.	3 "	75	L. Noel & Sons, London, Eng.	Made from fresh fruit & pure refined sugar.	3 23



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FRUIT JAMS.

Results of Analysis.											Remarks and Opinion of the Chief Analyst
per cent.		Water.	Polarization (nor- mal solution).			Residual cane sugar	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical ex- amination.	
Soluble	Total.		Direct	Invert.	Difference.						

Continued.

p. c.	p. c.	p. c.				p. c.	p. c.				
68.90	70.25	29.75	+20.3	-22.0	42.3	31.90	37.00	None	None	Goose- berry	49618 Genuine.
61.90	67.20	32.80	+29.3	-19.2	48.5	50.20	25.34			Plum	49619
										Goose- berry	
65.70	72.22	27.78	+4.3	-19.7	24.0	18.10	47.60				49620
62.62	70.22	29.78	+7.4	-17.9	25.3	19.07	43.55				49621

J. E. POWER, INSPECTOR

69.40	65.93	34.07	+13.3	-0.9	14.2	10.70	48.70	Bor- zoic acid.	None	Plum tissues.	38295	Preservative - Glu- cose present.
66.50	68.80	31.20	+12.6	-22.2	34.8	26.23	49.27	None.		Current tissues.	38296	Genuine.
63.25	67.51	32.49	+6.4	-22.3	28.7	21.63	41.62			Rasp- berry tissues.	38297	
65.60	68.71	31.29	+30.0	+2.4	27.6	20.78	41.82			Currant tissues.	38298	Contains glucose.
67.20	70.24	29.76	+28.6	-23.1	51.7	38.97	28.23			Straw- berry tissues.	38299	Genuine
63.50	68.97	31.03	+36.0	-0.5	36.5	27.50	36.00			Rasp- berry tissues.	38300	Contains glucose.
70.25	72.41	27.59	+4.3	-23.1	27.4	20.65	49.60				38301	Genuine.
65.37	68.41	31.59	+3.7	-11.7	25.4	19.5	46.22				38302	Genuine. Fruit jelly acknowledged.
70.90	73.50	26.50	+24.5	-22.8	47.3	35.60	35.24			Plum tissues.	38303	Genuine.
66.50	69.73	30.27	+18.9	-5.1	24.0	18.10	48.40	"	"	Plum tissues & a few stones.	38304	Contains glucose.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).	Solids	
				Quantity.	Cents.	Manufacturer.	Furnisher.		Insoluble.	

DISTRICT OF VICTORIA—

1912.									p. c.
Feb.	27	Fruit Jam..	49101 Windsor Gro- cery Co., Vic- toria, B.C.	3 pkgs	90	L. Noel & Sons, London, Eng		Pure Rasp- berry.	5.17
"	27	" ..	49102 " ..	3 "	90	Empress Mfg. Co., Ltd., Victoria, B.C		Strawberry "Empress Brand."	3.00
"	28	" ..	49103 The West End Grocery Co., Ltd., Vic- toria, B.C.	3 "	90	Kootenay Jam Co., Ltd., Nelson, B.C.		Strawberry "Kootenay Brand."	2.45
"	28	" ..	49104 " ..	3 "	60	Simcoe Cann- ing Co., Sim- coe, Ont.		Strawberry...	4.84
"	29	" ..	A 49104 D. H. Ross & Co., Victoria, B.C.	3 "	75	E. D. Smith, Winona, Ont		E. D. S. Rasp berry.	4.64
"	29	" ..	49105 " ..	3 "	75	Crosse & Black- well, London Eng.		C. & B. Black Currant.	4.00
Mar.	1	Fruit Jam..	49106 Copas & Young Victoria, B.C	3 "	60	Chivers & Sons, Ltd., Lon- don, Eng.		Chiver's Green Gooseberry.	3.70
"	6	" ..	49107 Wm. B. Hall, Victoria, B.C	3 "	75	Robertson's, London, Eng		Robertson's Raspberry.	3.14
"	6	" ..	49108 Harrison & Mc- Donald, Vic- toria, B.C.	3 "	75	Jas. Robertson & Sons, Pais- ley.		Golden Shred Strawberry.	2.83
"	6	" ..	49103 Acton Bros., Victoria, B.C	3 "	90	Kootenay Jam Co., Nelson, B.C.		"Kootenay" Brand Golden Plum.	4.70



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## FRUIT JAMS.

## Results of Analysis.

per cent.		Water.	Polarization (normal solution).			Residual cane sugar	Soluble matter other than cane sugar.	Preservatives.	Dye.	Microscopical examination.	Z. number.	Remarks and Opinion of the Chemist.
Soluble.	Total.		Direct.	Invert.	Difference.							

## D. O'SULLIVAN, INSPECTOR.

p. c.	p. c.	p. c.				p. c.	p. c.					
64.25	69.42	30.58	- 2.6	- 15.8	13.2	9.95	51.30	None	None	Rasp- berry tissues.	49101	Trace of glucose.
67.87	70.87	29.13	+ 38.0	- 22.8	60.8	45.83	22.64			Straw- berry tissues.	49102	Genuine.
63.86	66.25	33.75	+ 19.3	- 2.7	22.0	16.58	47.42				49103	Contains glucose.
67.25	72.00	27.91	+ 20.0	- 22.3	42.3	34.16	25.00	Salic- ylic acid trace			49104	Trace preservative. Otherwise genuine.
60.37	65.61	34.99	+ 15.0	- 19.7	34.7	26.43	31.21	None.		Rasp- berry tissues.	49104	Genuine.
71.90	75.90	24.10	+ 11.6	- 23.4	35.0	26.40	45.50			Black- berry tissues.	49105	
63.37	67.07	32.93	- 11.7	- 20.4	8.7	6.56	36.81			Cherry tissues.	49106	
67.12	70.26	29.74	+ 18.8	- 22.2	41.0	30.90	36.22	Salic- ylic acid trace		Rasp- berry tissues.	49107	Trace preservative. Otherwise genuine.
65.60	68.43	31.57	+ 32.2	- 21.5	53.7	40.48	25.12		slight- ly dy- ed.	Straw- berry tissues.	49108	Trace preservative and dye. Other- wise genuine.
64.10	68.80	31.20	+ 31.7	+ 8.4	23.3	17.56	46.54	None.	None	Plum- tissues and st- ones.	49109	Contains glucose.



## APPENDIX I.

**BULLETIN No. 245—VANILLA FLAVOURING EXTRACT.**

WM. HIMS WORTH, Esq.,

Acting Deputy Minister Inland Revenue.

SIR,—I beg to hand you herewith a report covering eighty samples of Vanilla Flavouring Extract purchased throughout Canada in April and May of this year.

Standards for flavouring extracts have been published as Circular G. 1045, and came into effect November 25, 1912. These are as follows:—

1. A flavouring extract intended for the purpose of flavouring food, is a solution of correct strength, as hereinafter defined, of sapid and odorous principles derived from an aromatic plant or parts of a plant, with or without its natural colouring matters; and conforms in name to the plant used in its preparation.

2. The usual solvents employed in the preparation of flavouring extracts are ethyl alcohol, water and glycerine. In the event of any other solvents than ethyl alcohol, water and glycerine being used, such solvents shall be harmless to health, and their names shall be plainly stated on the label.

3. Solutions of natural or synthetic preparations such as vanillin, coumarin, benzaldehyde, methyl salicylate or other sapid and odorous compounds, more or less resembling substances found in plants, or absolutely identical with these, if harmless to health, may be sold for flavouring purposes, if properly labelled, so as to make it quite clear that they are not extracts as above defined; and preferably by the use of the word artificial or imitation.

4. If an extract be fortified or strengthened by having such natural or synthetic preparations as are referred to in the immediately preceding section added to it, the fact of such addition shall be clearly stated on the label, or the word Compound or Mixture shall be used to describe it.

5. Lemon extract is the flavouring extract prepared from lemon peel, or from oil of lemon, and contains along with more or less of the terpenes of lemon oil not less than two-tenths (0.2) of one per cent of citral derived from oil of lemon.

6. Terpene lemon extract is the flavouring extract prepared as above described, and contains not less than five (5) per cent of oil of lemon, and not less than two-tenths (0.2) of one per cent of citral derived from oil of lemon.

7. Vanilla extract is the flavouring extract prepared from vanilla bean with or without sugar or glycerine and contains in 100 cubic centimetres the soluble matters from not less than five (5) grams of the vanilla bean (the dried cured fruit of *Vanilla planifolia*.)

Vanilla extract has been the subject of extended work by these laboratories on three (3) occasions, and the conclusions reached are stated in Bulletin No. 201 as follows:—

1. Extracts containing coumarin should be required to announce the fact either by explicit statement, or by being sold as compound or mixtures.

2. The use of alcohol is necessary in preparing an extract of vanilla, not so much to dissolve the vanillin, which is rendered more soluble by the presence of sugar, as in order to get the characteristic resins into solution. For this reason an extract cannot



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meet the requirements of a true vanilla bean extract unless it contains from 30 to 40 per cent of alcohol.

3. Samples containing notably more than 0.2 per cent of vanillin are presumably made not from the vanilla bean, but at least in part, from synthetic vanillin.

4. The standards above referred to will be defined with greater exactitude when our experience has furnished us with additional data such as to enable us to fix numerical limits for resins, vanillin, and other essential constituents. In the meantime it must suffice to classify on the basis of already acquired knowledge. In this regard, it must be concluded that an extract made with alcohol decidedly less than 30 per cent strength (volume) is deficient in the resinous matters of vanilla bean.

Where vanillin is decidedly above 0.200 per cent, the extract is to be regarded as artificial, as containing synthetic vanillin.

Where coumarin is present, as well as vanillin, the extract should be sold as a mixture or compound.

The following synopsis in which classifications is based upon the above considerations is interesting:—

Year.	Number of samples.	Genuine.	Mixture.	Artificial.	Percentage genuine.
1903	21	0	20	1	0
1909	231	77	37	23	9
1912	78	80	10	27	16

Of those classified as genuine, 2 samples of the collection of 1912 contained decidedly less than 30 per cent alcohol, and these should probably be designated as *doubtful* rather than as genuine.

It is satisfactory to note that the percentage of genuine samples found on the Canadian market is decidedly on the increase; and it is hoped that, on our next inspection, we shall find still more notable increase. Perhaps the most important advantage to be looked for, as a result of having legal standards for the article, is the correct labelling of vanilla extract. After this date, it will be possible to declare adulteration in the case of extracts which are offered under the name of Vanilla Extract, which being in reality prepared from synthetic vanillin, in whole or in part, or containing coumarin. Such extracts are not forbidden, and for many purposes they may be regarded as satisfactory; but it will be necessary that they should be correctly labelled, and thus be offered for what they really are.

I beg to recommend the publication of this report as Bulletin No. 245.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,

Chief Analyst.



BULLETIN No. 245 VANILLA EXTRACT.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.		Quantity.	Cost.	Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.	
			Name and Address of Vendor.	Quantity.			Manufacturer.	Furnisher.		Vanillin per 100cc.	Coumarin per 100cc.	Alcohol by Volume.			
DISTRICT OF NOVA SCOTIA R. J. WAUGH, INSPECTOR.															
1912.															
April 26	Vanilla Extract.	47061	Morrison & Williams, N.S., Halifax.	Wil-3 oz.	18		Imperial Co., Toronto.	Extract Manufacturers.	Shirriff's True Vanilla.	0.152	0.027	37.00	47061	Contains coumarin. Mixture.	
" 26	"	47062	Dixon's, Ltd., N.S., Halifax.	Hal-3 "	30		"	Bauld Bros., Ltd.		0.121	0.046	22.10	47062	" "	
" 26	"	47063	Share & Campbell, N.S., Halifax.	3 "	30		Gorman Eckert Co., London, Ont.	Manufacturers.		0.143	0.050	21.35	47063	" "	
May 18	"	47111	Nat. Drug & Chem. Co., N.S., Halifax.	3 "	22		Vendors.	"	"Sovereign" brand	0.282	0.051	Sample too small.	47111	Vanillin high. Artificial.	
" 22	"	47112	R. B. Seaton & Co., N.S., Halifax.	3 "	23		F. F. Dalley Co., Hamilton, Ont.	Manufacturers.		0.104	None.	30.85	47112	No coumarin. Genuine.	
DISTRICT OF PRINCE EDWARD ISLAND WM. A. WEEKS, INSPECTOR.															
May 21	Vanilla Extract.	46191	Stewart & Son, Charlottetown.	7 1/2 oz.	75		The Imperial Extract Co., Toronto.			0.221	0.065	34.96	46191	Vanillin high. Contains coumarin. Artificial.	
" 21	"	46192	Beer & Goff, Charlottetown.	7 1/2 "	75		Pure Gold Mfg. Co., Toronto.			0.082	None.	33.90	46192	No coumarin. Genuine.	
" 21	"	46193	R. T. Maddigan & Co., Charlottetown.	3 "	30		The Nat. Drug & Chem. Co., Ltd., Halifax.			0.055	0.265	32.00	46193	Chiefly coumarin. Mixture.	
" 21	"	46194	John McKenna, Charlottetown.	6 "	30		White Swan Spices & Cereals, Ltd., Toronto.			0.499	0.025	17.58	46194	Vanillin very high; contains coumarin. Artificial.	
" 21	"	46195	L. P. Duffy, Charlottetown.	6 "	30		White Swan Mills, Toronto.			1.020	0.170	15.70	46195	" "	



COLLEGE OF NEW BRUNSWICK, N. J. PERLSON, INSTRUCTOR

April 15	Vanilla Ex- tract.	15645 The Nat. Drug & Scent Chem. Co., St. John, N.B.	30	Vanilla	0.086	0.023	Sam- ple too small	15645 Contains commin. Mixture.
15	"	15646 Dearborn & Co., St. John, N.B.	30	Deartorns	0.217	None	32.75	15646 No commin. Van- illin high. Gen- uine.
16	"	15647 Geo. E. Barber & Co., Ltd., St. John, N.B.	30	Acorn	0.491	0.051	25.80	15647 Vanilla very high; contains commin- in Artificial.
May 3	"	15648 The Barb Co., Ltd., Woodstock, N.B.	30		0.005	None	Sam- ple too small	15648 No commin. Gen- uine.
" 9	"	15649 The Siscoy Mfg. Co., Ltd., St. John, N.B.	60		0.125	None	61.10	15649 " " "

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April 24	Vanillin Extract.	37423	W. E. Haydel, Chicago Ice Soc., Madison Ind., U.S.A.	60	Harold C. W. Bond & Co. Madison	29.30	0.204	None.	37423	No. common. Vanillin high. Genuine.
"	24	37424	Philippe Babin, 5 rue de Valenciennes	60	Charles R. G. Moore, 100 rue de Valenciennes	13.10	0.404	0.101	37424	Vanillin very high. Artificial.
"	24	37425	Charles Babin, 1943 rue St. Valen	60	Union Bathia & Co. Ltd.	9.12	0.200	0.082	37425	Vanillin high. Artificial.
"	24	37426	L. R. Mettel, 643 rue de Valenciennes	45	Union, 100 rue de Valenciennes	24.62	0.086	0.063	37426	Contains common. Mixture.
"	24	37427		60		9.65	0.052	0.100	37427	"

# COLLECTING THE VICTIM'S CHILDREN

April 1, Vanillin Ex-tract.	38921 P. Lactobacilli. Tests of Fermentation Pamplate.	0.273 1.000	22.75	38921 No coumarin; vanil- lin high. Con- tains synthetic vanillin. Artificial Mixture.
" 17 "	38922 Moore, Lactobacilli. Tests of Fermentation Pamplate.	0.121 0.046	24.36	38922 Contains coumarin. Artificial.
" 29 "	38923 H. J. Ellinger, Lactobacilli. Tests of Fermentation Pamplate.	0.308 0.065	35.05	38923 Vanillin very high. Artificial.



BULLETIN No. 245—VANILLA EXTRACT.

Date of Collection.	Nature of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Quantity.	Cent.			Vanillin per 100cc.	Coumarin per 100cc.	Alcohol by Volume.		

DISTRICT OF ST. HYACINTHE—J. C. ROULEAU, INSPECTOR *Concluded.*

1912.											
May	2	Vanilla Extract.	38984	J. A. Foucault, St. Leonard Jct.	30	Henri Jonas & Cie., Montreal.	0.265	none.	31.20	38984	No coumarin. Vanillin high. Contains synthetic vanillin. Artificial.
"	6	"	38985	L. Gendreau, St. Hyacinthe.	30	J. V. Boudrias, Montreal.	0.314	0.069.	12.90	38985	Vanillin high. Artificial.

DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.

April 15	Vanilla Extract.	39990	J. A. Turgeon, 42 Victoria st., Montreal.	30		"Gold" Star.	0.056	none	15.00	39990	No coumarin. Genuine; but alcohol too low.
"	15	"	39991	L. A. Pauze, 140 Villeneuve st., W., Montreal.	45	Henri Jonas & Co., Montreal.	0.273	"	33.05	39991	No coumarin. Vanillin high. Contains synthetic vanillin. Artificial.
"	15	"	39992	Annex Provision Co., 120 Clark st., Montreal.	30		Thistle (our own).	0.043	0.090.	39992	Contains coumarin. Mixture.
"	15	"	39993	"	75	Shirriff's	0.243	0.055	38.78	39993	Vanillin high. Contains coumarin. Artificial.
"	15	"	39994	D. Ashkanase, 21 Maria Anne st. E., Montreal.	30		Princess.	0.078	13.95	39994	Contains coumarin. Mixture.



SESSIONAL PAPER No. 14

DISTRICT OF OTTAWA J. A. RICEY, INSPECTOR

1	April 23	Vanilla Extract.	51601 F. A. Scott & Son, 311 Wellington St., Ottawa.	75	Sam'l. For.	H. N. Day & Labell, Sons, Ottawa. Imported Vanillin.	0.217	0.006	18	78	51601	Vanillin high. Contains coumarin. Mixture.
13	"	"	51602 R. Clark Cummings, 1000, Cummings Bldg., Ottawa.	30	Integrals. Mules, For.	Lester Park Food Co., Toronto.	0.035	0.106	8	98	51602	Contains coumarin. Mixture.
"	23	"	51603 C. J. Young, Ottawa.	75	L. Chemicals, Ottawa.	Meredith & Co.	0.445	0.009	9	90	51603	Vanillin very high. Artificial.
"	25	"	51604 W. F. Graham, Ottawa.	45	Nat. Drug & Chem. Co., Ottawa.	"	0.301	0.147	12	55	51604	Vanillin very high. Artificial.
"	25	"	51605 H. M. Melchior, 1111, Hull, P.Q.	30	Blank on	Parley, Hull.	1.088	0.202	22	10	51605	Vanillin very high. Artificial.

DISTRICT OF KINGSTON JAS. HOGAN, INSPECTOR

April 15	Vanilla Extract.	49550	Albert Power, 311, 1st St., Kingston.	25	L. E. Co., Toronto.	"	0.100	0.008	14	50	49550	Contains coumarin. Mixture.
"	16	"	49551 H. G. & Son, 611, 1st St., Kingston.	25	"	"	0.000	0.005	20	20	49551	Contains coumarin. Mixture.
"	16	"	49552 J. L. Gault, 1st St., Kingston.	60	Page, Galt & Co., Toronto.	"	0.001	none	28	90	49552	No coumarin. Genuine.
"	17	"	49553 J. R. Hall, 1st St., Kingston.	30	Vanilla	"	0.122	0.005	20	04	49553	Contains coumarin. Mixture.
"	17	"	49554 Patton Co., 1st St., Kingston.	30	Patton & McArthur, Kingston.	"	0.101	0.004	10	20	49554	Contains coumarin. Mixture.

DISTRICT OF TORONTO H. J. DAVIER, INSPECTOR

April 18	Vanilla Extract.	49557	The Phoenix Chemical Co., 971, Queen St. W., Toronto.	25	"	Imported French Vanilla Beans.	0.008	0.124	12	90	49557	Contains coumarin. Mixture.
"	18	"	49558 W. G. Watkins, 1st St., Toronto.	20	"	J. M. Watkins, 1st St., Toronto.	0.234	0.101	10	38	49558	Vanillin high. Artificial.
"	18	"	49559 R. Ross, 743, Queen St. W., Toronto.	20	"	Imported French Vanilla Beans.	0.000	0.100	8	10	49559	Contains coumarin. Mixture.
May 1	"	"	49560 Charles Cash, 140, Jarvis St. N., Hamilton.	15	"	P. J. Doherty Co., 1st St., Hamilton.	0.000	0.101	10	84	49560	"
"	1	"	49561 E. R. Hamilton, 140, Jarvis St. N., Hamilton.	24	"	Imported French Vanilla Beans.	0.120	0.087	15	06	49561	"



BULLETIN No. 245—VANILLA EXTRACT.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.		Vanillin per 100cc.	Coumarin per 100cc.	Alcohol by Volume.		

DISTRICT OF LONDON—JNO. TALBOT, ACTING INSPECTOR.

1912.													
May	7	Vanilla Extract.	48257	W. R. Butcher, St. Mary's.	30	3 bts.	Hamilton Coffee & Spice Co., Hamilton.					48257	Contains coumarin. Mixture.
"	7	"	48259	F. W. Hutton, St. Mary's.	30	"	F. F. Dalley & Co., Hamilton.					48259	No coumarin. Genuine.
"	8	"	48265	Stuebning & Son, Berlin.	30	"	Gorman Eckert Co., London.	Golden Gem. Pure Extract.	0.046	0.046	21.82	48265	Contains coumarin. Mixture.
"	8	"	48267	Schell Bros., Berlin.	75	"	Henri Jonas, Montreal.	Royal Quintessence, Pure Vanilla.	0.273	None	32.10	48267	No coumarin. Vanillin high. Contains synthetic vanillin. Artificial.
"	8	"	48269	Dunke & Co., Berlin.	30	"	Hamilton Chemical Works, Hamilton.	Prime Extract.	0.143	0.041	27.90	48269	Contains coumarin. Mixture.

DISTRICT OF WINDSOR—JNO. TALBOT, INSPECTOR.

May	2	Vanilla Extract.	48237	F. McDougall, Ingersoll.	30	3 bts.	I. E. Co., Toronto.					48237	Contains coumarin. Mixture.
"	2	"	48240	C. A. O'Neil, esq., Ingersoll.	30	"	Gorman Eckert Co., London, O.	Oriental Flav. Ext.	0.108	0.055	20.42	48240	"
"	3	"	48246	Pooler & Co., Woodstock, O.	75	"	Shirriff's, Montreal.	Shirriff's Imperial.	0.230	0.032	38.16	48246	Vanillin high. Artificial.
"	3	"	48247	Fred Millman, Woodstock, O.	30	"	Gorman Eckert Co., London, O.	Rose brand	0.056	0.069	22.70	48247	Contains coumarin. Mixture.
"	3	"	48248	Jos. Parker, Woodstock, O.	30	"	Canada Spice-grocery Co., London, Ont.	Victoria Brand	0.069	0.087	20.76	48248	"



DISTRICT OF MANITOBA—A. C. LARIVIERE—INSPECTOR.

14	April 16	Vanilla Ex-tract.	48636	St. James Cashier, St. James.	75	The Dyeing Co., Winnipeg.	Red Cross.	1.020	0.064	32.66	48636	Vanillin very high. Artificial.
"	16	"	48637	Duncan & Hunter, 3 St. James.	45	"	Royal.	0.988	0.101	28.54	48637	"
"	17	"	48638	W. A. Buttram, 3 Portage Ave., Winnipeg.	25	North Star Mfg. Co., Winnipeg.	Sealmark.	0.260	0.055	19.15	48638	Vanillin high. Artificial.
"	17	"	48639	J. Paterson, 308 Ave., Winnipeg.	25	Vendor.	Low, pop up high.	0.061	0.060	20.06	48639	Contains coumarin. Mixture.
"	18	"	48640	R. McLaughlin, 3 Portage Ave., Winnipeg.	30	Unknown.	"	0.022	0.123	19.40	48640	"

DISTRICT OF CALGARY—R. W. FLETCHER, INSPECTOR.

April 7	Vanilla Ex-tract.	44155	Campbell, Wilson & Home, Leithbridge.	60	Campbell Bros. & Wilson, Winnipeg.	0.002	0.101	21.64	44155	Contains coumarin. Mixture.
"	"	44156	"	50	Graham & Baker Co., Leithbridge.	0.261	0.060	24.05	44156	Vanillin high and acid.
"	"	44157	H. A. McKelvey, 30 Leithbridge.	75	Gold Standard Mfg. Co., Winnipeg.	0.190	N. 1	53.00	44157	No coumarin. Contains—
"	"	44158	A. McDonald Co., 3 Leithbridge.	75	White Star Mfg. Co., Winnipeg.	0.000	0.110	20.68	44158	Contains coumarin. Mixture.
"	"	44159	Hudson Bay Co., 3 Leithbridge.	60	"	0.282	N. 1	20.00	44159	No coumarin. Vanillin high. Contains—

DISTRICT OF NELSON—THOS. PARKER, INSPECTOR.

April 18	Vanilla Ex-tract.	40644	W. H. Southby, 30 Vernon, B.C.	60	Kelly, Duncan & Co., Vancouver.	0.008	0.101	18.90	40644	Vanillin, high. Artificial.
"	"	40645	"	60	W. H. Macken, Vancouver.	0.021	0.067	37.96	40645	Vanillin high. Mixture.
"	"	40646	"	60	Pharm. Guild Mfg. Co., T. P. P.	0.078	N. 1	26.74	40646	No coumarin. Contains—
"	"	40647	W. R. McEwen, 3 Vernon, B.C.	60	Pharm. Mfg. Co., Vancouver.	0.000	0.068	20.20	40647	Contains coumarin. Mixture.
"	"	40648	"	75	Chemical Co., Vancouver.	0.100	0.068	20.04	40648	"



BULLETIN No. 245—VANILLA EXTRACT.

Date of Collection.	Nature of Sample.	No. of Sample.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of Opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Name and Address of Vendor.	Quality.	Cost.	Manufacturer.	Furnisher.	Vanillin per 100cc.	Coumarin per 100cc.	Alcohol by Volume.		

DISTRICT OF VANCOUVER—J. F. POWER, INSPECTOR.

1912.												
May	1	Vanilla ...	38321 H. A. Edgett, 3 bots. Vancouver.		75	Gorman, Eckert & Co., Winnipeg.	Gorman's Pure Flavour Extract.	0.065	0.096	21.82	38321	Contains coumarin. Mixture.
"	1	"	38322 Woodward Dept. 3 " Stores, Vancouver.		75	Royal Extract Co., Vancouver.	Vanilla Extract.	0.065	0.046	17.10	38322	"
"	1	"	38323 McTaggart's Gro- 3 cery, Vancouver.		75	Empress Mfg. Co., Vancouver.	"	0.091	0.037	27.04	38323	"
"	1	"	38324 McDowell's Gro- 3 cery, Vancouver.		195	White Star Mfg. Co., Ltd., Winnipeg.	Pure Fruit Flavour	0.091	0.110	35.60	38324	"
"	1	"	38325 Armour MacFar- 3 lane, Vancouver.		120	Pure Gold Mfg. Co., Toronto.	Vanilla Flav. Ext.	0.065	None	33.60	38325	No coumarin. Genuine.

DISTRICT OF VICTORIA D. O'SULLIVAN, INSPECTOR.

April	23	Vanilla Extract.	49135 Windsor Grocery Co., Victoria.	3 bots.	75	Sheriff's Mfg. Co., Toronto.	Shirriff's Imported quint essence true Vanilla.	0.204	0.046	39.60	49135	Vanillin high, containing coumarin mixture.
"	24	"	49136 The West End Grocery Co., Ltd., Victoria.	3 "	75	Pure Gold Mfg. Co., Toronto.	Pure Gold Vanilla Extract.	0.061	None	33.90	49136	No coumarin. Genuine.
"	24	"	49137 Harrison & McDonald, Victoria	3 "	75	Empress Mfg. Co., Vancouver.	"Empress Brand"	0.148	0.068	29.12	49137	Contains coumarin. Mixture.
"	25	"	49138 Dixie H. Ross & Co., Victoria.	3 "	75	Imperial Ext. Co., Toronto.	"Dixie" Brand	0.321	0.074	17.76	49138	Vanillin high. Artificial.
"	25	"	49139 E. G. Bailey, Victoria.	3 "	60	W. A. Jameson Coffee Co., Victoria.	Victoria Brand Vanilla Flavour.	0.490	0.138	34.34	49139	Vanillin very high. Artificial.



APPENDIX J.

BULLETIN No. 246—CANNED TOMATOES.

OTTAWA, December 30, 1912.

Wm. HIMSWORTH, Esq.,  
Acting Deputy Minister,  
Inland Revenue.

SIR,—I have the honour to report to you regarding 140 samples of canned tomatoes purchased throughout the Dominion of Canada in September and October of this year.

With a single exception, in which slight decomposition was found, the contents of the cans were in good condition.

The cans in which tomatoes are packed appear, so far as this inspection goes, to vary in capacity, and to fall into three groups, in the matter of size.

1. *Large Size.*—About 1,050 cubic centimetres, or approximately 37 ounces. Of this size 111 samples are found in the present collection.

2. *Medium Size.*—About 875 cubic centimetres, or approximately 31 ounces. Of this size 24 samples were found.

3. *Small Size.*—About 650 cubic centimetres, or approximately 23 ounces. Of this size 5 samples were found.

*Large Size.*

16 samples vary from	1000	to	1025	cc.	36	oz.
63	"	"	1025	"	37	"
27	"	"	1050	"	38	"
5	"	"	1075	"	39	"

111

The total contents of cans of these sizes vary from 29 to 25.9 ounces; 14 samples being below 32 ounces and 19 samples being above 34 ounces. Thus 78 samples or 70% of the whole contain from 33 to 34 ounces.

The total solids of these contents vary from 11.2 to 24.3 ounces; or in greater detail, as below:—

11 to 12 ounces in	3	samples.
13 " 14	"	7 "
15 " 16	"	21 "
17 " 18	"	21 "
19 " 20	"	32 "
Above 20	"	27 "



Thus 111 samples of canned tomatoes, packed in what we may call large sized tins, give the following averages:—

Average capacity of the can.....	37	ounces.
“ total contents.....	34	“
“ Solid “ .....	18	“
“ Water “ .....	16	“

The capacity of the largest sized tin in which these vegetables are packed is fairly constant, the variation being about 1 oz. in either direction.

The total content of the can averages about 3 ounces less than the capacity of the can. This space being either vacuous or containing air.

The solid matter of these contents is of course, the true measure of the value of the article, equal quality being assumed. While the average amount of solids is 18 ounces this varies between very wide limits, viz., from 11.2 oz. to 24.3 oz; which means that some samples have fully twice the value of others. There is no doubt that some regulation is necessary here.

I think it would be reasonable to require a minimum of 20 oz. solids in cans of the size now being considered.

It may be well to say that the solids above referred to are not the dry solid matter of the tomato, but, the moist solids retained on cheese cloth. The weighed total content of the can is poured upon cheese cloth and allowed to drain as long as drops fall at intervals not longer than 5 seconds. The water which passes through is then weighed, and this weight subtracted from the weight of total contents. The remainder is the weight of the solid matter.

*Medium Size.*

- 6 samples vary from 855 cc. to 875 cc. or 31 ounces.
- 17 samples vary from 875 cc. to 900 cc. or 32 ounces.
- 1 sample is of 980 cc. or 36 ounces.

The last sample referred to may perhaps belong to the preceding group.

With three exceptions, the cans of this size were procured in British Columbia, and it may be that packers ship the smaller tins to distant points to reduce cost of freight. The solid matter in these samples varies in amount from 12.5 oz. to 20.8 oz. and averages 16.3 ounces. More in detail, as follows:—

Below 13 ounces.....	2	samples.
“ 14 “ .....	2	“
“ 15 “ .....	3	“
“ 16 “ .....	2	“
“ 17 “ .....	8	“
“ 18 “ .....	2	“
Above 18 “ .....	5	
	24	“

*Small Size.*

Five samples are contained in tins of about 650 cc. size (23 ozs.). The solids range from 9.5 to 14.4 ounces and average 11.7 ozs. The ratio of solid content to size of can (11.7: 23) is 0.5 being practically identical with that for the other sizes. It thus appears that the size of the package is a guide to the actual amount of tomato pulp contained therein, on a basis of average results as found in this inspection.



## SESSIONAL PAPER No. 14

If I am justified in holding that 20 ounces of solids is a reasonable content for a 37 ounce tin, then a medium sized tin of 32 ounces should contain 17 ounces of solids, and a small tin of 23 ounces should contain 12.5 ounces.

On this basis 52 samples of the large size, or 47 per cent of the whole, contains less than normal quantity, and a considerable number of these are very far below the standard suggested. Of the medium size tins, 17 samples or 70% of the whole contains less than the standard requires.

Of the small size 3 samples or 60% of the number contain less than the standard requires.

The State of Ohio requires that standard tomatoes, should be packed to have a gross weight of 36 ounces of fruit, exclusive of juice. For a higher grade, the gross weight must be 38 ounces, with not less than 20 ounces of fruit.

In view of the great disparity of values shown in this widely used article of food, I am of the opinion that a standard should be legalized under the provisions of 6-7 Edward VII. Chapter 27, "THE MEAT AND CANNED FOODS ACT" and the amendment thereto, which Act is administered by the Department of Agriculture, and I hope that the results here placed on record will be found of service to the Department of Agriculture should it decide on establishing such a standard.

I beg to recommend the publication of this report as Bulletin No. 246.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,  
*Chief Analyst.*



Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA—

1912.								
Sept. 18	Canned tomatoes	47105	A. & W. Smith & Co., Hali- fax, N.S.	3 cans	43	Simcoe Canning Manufacturers Co., Simcoe, Ont.		
" 18	"	47106	Wentzells Ltd., Halifax, N.S.	3 "	45	Ontario Cannery Ltd., Sarnia, Ont.	"	
" 19	"	47107	Chisholm & Co. Halifax, N.S.	3 "	35	E. D. Smith, Winona, Ont.	Manufacturer...	Sold as 1910 pack.
" 19	"	47108	R. B. Adams & Co., Halifax, N.S.	3 "	50	Simcoe Canning Co., Simcoe, Ont.	Bauld Bros., Halifax, N.S.	
" 20	"	47109	John Tobin & Co., Halifax, N.S.	3 "	40	Roberts Bros., Baltimore, U.S.A.	Manufacturers.	
" 24	"	47110	Cain Bros., Yar- mouth, N.S.	3 "	48	F. R. Laylor C. Co., Dunn- ville, Ont.	E. Allen, Yar- mouth, N.S.	
" 24	"	47113	Wm. Law & Co., Yarmouth, N.S.	3 "	45	Suddersville C. Co., Sudders- ville, U.S.A.	Manufacturers..	
" 25	"	47114	Wentworth Stores, Wind- sor, N.S.	3 "	45	A. C. Millar Co., Picton, Ont.	"	
Oct. 8	"	47115	C. E. Smith, Halifax, N.S.	3 "	54	Ontario Cannery Sarnia, Ont.	Wentzells Ltd., Halifax, N.S.	
" 8	"	47116	B. O. Bishop, Dartmouth, N.S.	3 "	45	A. C. Millar, Picton, Ont.	John Tobin & Co., Halifax, N.S.	

DISTRICT OF PRINCE EDWARD ISLAND—

Sept. 6	Canned tomatoes	46297	Grant & Co., Charlottetown, P.E.I.	3 cans	60	J. S. Farren & Co., Balti- more, Md.		
" 6	"	46298	R. T. Maddigan & Co., Char- lottetown, P.E.I.	3 "	45	Simcoe Canning Co., Simcoe, Ont.		
" 7	"	46299	A. Gates & Co., Charlottetown,	3 "	54	W. F. Apple- garth, Golden- hill, Dor- chester Co., Md.		
" 19	"	46300	Coffin & Co., Charlottetown, P.E.I.	3 "	45	The Old Home- stead Canning Co., Picton, Ont.		
" 14	"	46301	A. J. Warren, Charlottetown, P.E.I.	3 "	54	Boulters, Picton Ont.		
" 14	"	46302	W. W. Walker, Charlottetown, P.E.I.	3 "	54	St. Eustache Canning Co., St. Eustache, P.Q.		
" 17	"	46303	Geo. Carver, Pownal, P.E.I.	3 "	48	Tecumseh Cann. Factory, Te- cumseh, Ont.		



## SESSIONAL PAPER No. 14

## CANNED TOMATOES.

## RESULTS OF ANALYSIS.

Brand.	Grade.	RESULTS OF ANALYSIS.				Condition of Sample.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Net weight.	Capacity of can.	Water.	Solids.			

## R. J. WAUGH, INSPECTOR.

		oz. 1	cc. 1	oz.	oz.		
Lynn Valley.	Select.....	31.3	1040	14.2	20.1	Good..	47105
Prairie.....	Extra Quality.	31.5	1050	16.0	18.3		47106
E. D. S.....	Select.....	21.3	650	6.9	14.4	"	47107
Lynn Valley.	"	31.4	1040	17.9	16.5	"	47108
Big.....	First Quality	19.9	655	10.4	9.5	"	47109
Grand River.	Choice.....	22.0	1050	16.5	16.4	"	47110
Air Ship.....		31.7	1050	15.7	16.0	"	47113
Little Chief. ....		22.1	1040	16.8	15.3	"	47114
Prairie ..	Extra Quality.	33.8	1050	17.4	16.4	"	47115
Little Chief. .		33.2	1060	14.6	18.6	"	47116

## WM. A. WEEKS, INSPECTOR.

Shield.....		33.0	1050	12.9	20.1	Good	46297
Lynn Valley.	Select.	33.0	1045	9.8	23.2	"	46298
Pride of Golden Hill.	First Quality.	32.9	1025	13.7	19.2	"	46299
Old Homestead.		33.8	1040	13.0	20.8	"	46300
Lion...	Patrons	32.6	1035	14.5	18.1	"	46301
Union.	First Quality.....	32.9	1025	13.7	19.2	"	46302
Tecumseh	Choice.....	34.2	1030	13.6	20.6	"	46303



4 GEORGE V., A. 1914

BULLETIN No. 246—

Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF PRINCE

1912.								
Sept. 19	Canned Tomatoes	46304	M. Duffy, Char- lottetown, P.E.I.	3 cans	54	The A. B. Sal- vor Canning Co., Bloom- field, Ont.		
Oct. 1	"	46305	Sinclair & Stew- art, Summer- side, P.E.I.	3 "	48	The Felton Pack. Co., Felton, Del.		
" 3	"	46306	A. Currie & Co., Souris, P.E.I.	3 "	57	J. W. Windsor, Montreal.		

DISTRICT OF NEW BRUNSWICK

Sept 9	Canned Tomatoes	50470	2 Barkers Ltd St. John N.B.	3 cans	42	The Port Mil- ford Packing Co., Ltd., Ont Canada.		Prince Edwards Pride.....
" 9	"	50471	Baird & Peters St. John, N.B.	"	47	W. W. Boyer & Co., Baltimore M.D., U.S.A.		"Star"....
" 10	"	50472	W. A. Simonds.. St. John, NB.	"	54	Bloomfield Packing Co., Ltd., Bloom- field, Ont.		"Quaker".....
" 10	"	50473	McPherson Bros St. John, N.S.	"	54	Simcoe Canning Co., Simcoe, Ont.		"Lynn Valley
" 11	"	50474	H. A. Francis... St. John, N.B.	"	45	Stoney Point Canning Co., Ltd., Stoney Point, Ont.		"Pointer".....
" 19	"	50475	Estate of J. Fred Shaw, St. John N.B.	"	45	The Ontario.... Pure Food Co. Ltd.		"Red Seal"...
" 25	"	50476	J. & J. S. Titus.. St. Martins, N.B.	"	54	The Booth Packing Co., Baltimore, M. D., U.S.A.		"Oval".....
Oct 3	"	50477	H. C. Jewett.... Fredericton, N.B.	"	54	Roberts Bros... Baltimore, M.D., U.S.A..		"Big R".....
" 8	"	50478	Mrs. P. Legacy.. Grand Falls, N.B.	"	54	Dominion Can- ners, Ltd.		"Gold Bond"...
" 16	"	50479	D. A. McBeath Moncton, N.B	"	48	The Essex Can- ning & Pre- serving Co., Ltd.		"Essex".....



SESSIONAL PAPER No. 14  
CANNED TOMATOES.

RESULTS OF ANALYSES.

Brand.	Grade.					Condition of Sample.	No. of Sam- ple.	Remarks and Opinion of the Chief Analyst.
		Acid, %	Solids, %	Water, %	Starch, %			
EDWARD ISLAND—Continued.								
	Choice.	32.4	1050	11.5	20.9	Good . . .	16304	
		34.2	1005	14.1	20.1		16305	
Ice Castle . . . . .	Finest Quality.	33.8	1000	14.9	19.0		16306	

J. C. FERGUSON, INSPECTOR.

Prince Edwards Pride.	Choice.	34.3	1035	12.9	16.4	Good	50470
Star.		33.3	1040	13.7	19.6		50471
Quaker . . . . .		31.0	1050	12.0	19.0		50472
Lynn Valley . . . . .	Select	27.8	900	12.5	14.8		50473
Pointer.	Choice.	33.8	1030	14.8	19.0		50474
Pure Food . . . . .		35.9	1035	13.6	22.3		50475
Booth's Standard		33.4	1030	14.0	19.4		50476
Big . . . . .	Finest Quality . . .	33.9	1010	13.1	20.8		50477
Gold . . . . .		32.4	1050	18.3	14.1		50478
Essex . . . . .	Select.	35.4	1080	16.8	18.6		50479



Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF QUEBEC—

1912.								
Sept	3 Canned Tomatoes	37241	Eudore Delisle.. 2 Ave Tache- reau, Quebec.	3 cans	54	St. Eustache.... Canning Co.	Turcot & Frère...	
"	4 "	37242	O. Lacroix..... 19 Rue St. Jo- seph, Quebec.	"	54	Tomatoes..... Co., Ont.	J. B. Reneaud... Quebec.....	
"	5 "	37243	W. Cantin 133 Rue du Pont, Quebec.	"		Tomatoes Co., Ont.	Joseph & Son Quebec.	
"	6 "	37244	G. Gingras, 268 Rue du Roie, Quebec.	"	51		Gaboury Ltd..	"Little Chief"..
"	9 "	37245	Cantin & Frère 271 Rue St. Joseph, Que- bec.	"	51	W. Boulter, Pic- tou.	Turcot..... Frère.	
"	10 "	37246	C. S. Riverin 50 Rue de la Couronne Que-	"	54	Dominion Can- ners.	Turcot Frère..	
"	11 "	37247	Myrand & Pou- liot, 70 Rue de la Couronne, Quebec.	"	45	Sudraill.....	Unknown.....	
"	12 "	37248	Arthur Drolet 714 Rue St. Valier. Que- bec.	"	54	A. Damery Bay	Turcot & Frère...	
"	13 "	37249	A. Rinfret, 414 Rue St. Jo- seph, Quebec.	"	51	St. Eustache Canning Co.	Gagnon & Gar- ent.	
"	16 "	37250	Hamel & Be- dard, 728 Rue St. Valier, Quebec.	"	54	Mill & Co., Pic- ton.	Turcot & Frère..	

DISTRICT OF ST. HYACINTHE

Sept. 16	Canned Tomatoes	1487	D. M. D. Cor- mier, St. Ger- main de Gran- tham.	3 cans	45	The Felton Pack ing, Co. Felton Del.	Lacaille & Gen- dreau, Montreal.	
"	17 "	1488	Carter & Co.... Abenakis Springs.	"	42		Hudon, Hebert... & Cie., Montreal.	
"	20 "	1489	M. Boisselle.... St. Anne.	"	45	W. Clark, Mon- treal.		
"	27 "	1490	T. H. Raymond Iberville.	"	51	A. C. Miller & Co., Picton, Ont.		
Oct. 2	"	1491	W. J. Smith.... Megantic.	"	45	Suddersville Canning Co., Suddersville, M.D.		



## SESSIONAL PAPER No. 14

## CANNED TOMATOES.

## RESULTS OF ANALYSIS.

Brand.	Grade.	Net weight.	Capacity of can.	Water.	Solids.	Condition of Sample.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
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## F. X. W. E. BELAND, INSPECTOR.

		oz.		oz.			
Union .....	First Quality	34.5	1100	15.3	19.2	Good.	37241
Tecumseh	Choice.....	33.0	1005	16.3	16.7		37242
Tecumseh...		31.8	1035	16.1	11.7		37243
Little Chief...		31.9	1030	16.2	17.7		37244
Boulter.....	Famous	32.8	1030	16.1	11.7		37245
Little Chief...		31.9	1010	20.7	11.2		37246
Air Ship.....		33.4	1045	13.9	19.5		37247
F. F. V.	Choice.	33.8	1060	10.9	22.9		37248
Union.	First Quality	35.4	1095	12.0	23.9		37249
Little Chief..		33.3	1000	17.1	11.7		37250

## J. C. ROULEAU, INSPECTOR.

Bell Cow		33.0	1010	20.8	12.2 good..	1487
Gazelle	Very Finest.	33.8	1030	18.5	15.3	1488
		33.0	1000	10.6	22.4	1489
Little Chief..		33.8	1060	11.8	22.0	1490
Airship		33.5	1050	12.3	21.2	1491



Date of Collec- tion.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF ST. HYACINTHE—

1912								
Oct.	3	Canned Tomatoes	1492 N. Hamel..... Magog.	3 cans	45	Church Bros.,... Pictou. Ont.		
"	8	"	1493 R. H. Peardon, Eastman.	"	45	The Simcoe Canning, Co., Simcoe Ont.		
"	10	"	1494 J. E. Robitaille, Sherbrooke.	"	45	T. Degruchy... Laprarie.		
"	14	"	1495 A. Clapin..... St. Hyacinthe	"	45	Church Bros.... Pictou, Ont.		
"	14	"	1496 Art. Houle..... St. Hyacinthe	"	45	J. S. Farren& Co., Baltimore M.d.		

DISTRICT OF MONTREAL—

Sept.	3	Canned Tomatoes	50911 E. Paquette.... 39 Mount Royal ave. E., Mon- treal.	3 cans	45	Hudon Hebert & Co., Ltd.	Manufacturers...	"Gazelle".....
"	3	"	50912 Arthur Corbeil.. 55 Mount Royal ave. E. Mon- treal.	"	42	The Felton Packing Co., Felton, Del.		"Bell Cow".....
"	3	"	50913 Arthur Corbeil.. 55 Mount Royal ave. E., Mon- treal.	"	42	Tecumseh Can- ing Co., Ltd..		"Tecumseh"....
"	3	"	50914 E. Boismems... 623 Colonial ave., Montreal	"	42	W. Lorrain..... Borda Plouffe P.Q.		"Royal".....
"	3	"	50915 J. B. Valiquette Rachel, E., Montreal.	"	45	A. C. Miller & Co., Pictou, Ont.		"Little Chief"..
"	4	"	50916 S. Carey..... 176 Villeneuve St., Montreal.	"	45	L. Chaput Fils & Cie., Mon- treal.	Manufacturers...	"Princess".....
"	4	"	50917 S. Carey..... 176 Villeneuve St., Montreal	"	45	Bloomfield Packing Co., Ltd.		"Quaker".....
"	4	"	50918 L. P. Deslieres 1750 Cadieux St., Montreal.	"	42	D. E. Foote & Co. Balti- more, M.d.		"Foote's Best".
"	4	"	50919 L. P. Deslieres. 1750 Cadieux St., Montreal.	"	42	St-Isidore Cann- ing Co., St- Isidore, P.Q.		"Three Star"...
"	4	"	50920 T. Chevrette... 110 Mount Royal Ave. E. Montreal.	"	45	Chas. Webster East New- market, Dor- chester, M.d.		"Rosehill".....



SESSIONAL PAPER No. 14  
CANNED TOMATOES.

RESULTS OF ANALYSIS.

Brand.	Grade.	Net weight.	Capacity of can.	Water.	Solids.	Condition of sample.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
<i>Can. 1-1-1.</i>								
Lasso.....		32.4	1035	15.0	17.4	Good.	1492	
Lynn Valley.....	Select.....	33.4	1050	15.6	17.8	"	1493	
	Choice.....	35.1	1070	15.2	19.9	"	1494	
Lasso...		32.2	1030	13.4	18.8	"	1495	
Shield.		32.9	1040	18.8	14.1	"	1496	

J. J. COSTIGAN, INSPECTOR.

Gaelle.....	Finest.	33.5	1020	13.3	20.2	Good.	50911
Bell Cow.		32.6	1030	15.2	17.4	"	50912
Tecumseh.....	Choice..	33.7	1040	10.8	22.9	"	50913
Royal.....	Finest Quality..	33.7	1040	18.2	15.5	"	50914
Little Chief..		29.0	1030	13.3	15.7	"	50915
Princess.....	Extra Quality..	32.4	1030	12.3	20.1	"	50916
Quaker	Hand Packed.....	32.8	1035	16.2	16.6	"	50917
Foot's Best.	Selected.	32.8	1025	20.0	12.8	"	50918
Three Stars..		34.5	1070	18.0	16.5	"	50919
Rosehill.....	First Quality.....	33.3	1030	15.4	17.9	"	50920



4 GEORGE V., A. 1914

BULLETIN No. 246—

Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF OTTAWA—								
1912.								
Aug. 30	Canned Tomatoes	50281	John Wilson, Vankleek Hill	3 cans	54	Napanee Cann'g Co., Napanee, Ont.	Wm. Galbraith & Son, Mon- treal.	"Canada's Pride
" 31	"	50282	A. Meighan & Bro., Perth, Ont.	3 "	45	Sanitary Pack'g Co., Weston, Ont.	Geo. Robertson & Son, King- ston.	'Sanitary.'
Sept. 4	"	50283	A.S. Moreland, Ottawa.	3 "	45	The Simcoe Canning Co., Simcoe, Ont.	Mfrs. . . . .	'Lynn Valley'— warranted pure and free from adulteration of any kind.
" 4	"	50284	Geo. Ager, Ottawa.	3 "	45	A. C. Miller & Co., Picton, Ont.	H. N. Bate & Sons, Ottawa.	'Little Chief.'
" 6	"	50285	A. S. Shaver, Brockville.	3 "	45	Delhi Fruit & Veg. Canning Co., Delhi Ont	Gilmour & Co., Brockville.	
" 12	"	50286	Major & Hur- teau. Ottawa.	3 "	45	Baltimore Can- ning Co., Bal- timore, Md.	E. M. Lerner, Ottawa.	'Old Scout.'
" 16	"	50287	W. Cunningham Ltd., Ottawa.	3 "	45	H. W. Roberts, Clara, Md.	S. J. Major, Ltd. Ottawa.	'Harvester.'
" 20	"	51627	McDonald Bros. Ottawa.	3 "	51	Brighton Cann'g Co., Brighton, Ont.	F.J. Castle Co., Ottawa.	'Thistle.'
" 20	"	51634	Wall & Co., Ottawa.	3 "	45	Simcoe Caninng Co., Simcoe, Ont.	Mfrs.....	'Lynn Valley'— warranted pure and free from adulteration of any kind.
" 20	"	51636	P. Devine & Co. Ottawa.	3 "	45	W. Boulter & Sons, Picton,	Moreland, Bank St. Ottawa.	'Lion'—Peerless Quality.

## DISTRICT OF KINGSTON

Sept. 3	Canned Tomatoes	50781	Geo. Gibson, Kingston.	3 cans	45	Orsers Home Cannery, Bloomfield.		
" 3	"	50782	Wm. Davies, Kingston.	3 "	45	Napanee Cann'g Co., Napanee.		
" 3	"	50783	L. W. Murphy, Kingston.	3 "	45	Baltimore Canning Co., Baltimore.		
" 4	"	50784	W.E. Hopkinson Kingston.	3 "	45	Beamsville P. Co., Beamsville.		
" 4	"	50785	C. Saunders, Kingston.	3 "	45	The Old H. C. Co., Picton.		
" 4	"	50786	D. Couper, Kingston.	3 "	45	Port Milford P. Co.		
" 4	"	50787	Anderson Bros., Kingston.	3 "	50	The Old H. C. Co., Picton.		
" 4	"	50788	C. H. Pickering, Kingston.	3 "	45	Brighton Cann'g Co., Brighton.		
" 4	"	50889	W. J. Nesbitt, Kingston.	3 "	45	The Old H. C. Co., Picton.		
" 4	"	50790	Jas Crawford, Kingston.	3 "	45	Essex C. & P. Co.		



## SESSIONAL PAPER No. 14

## ANNED TOMATOES.

RESULTS OF ANALYSIS.							Remarks and Opinion of the Chief Analyst.
Brand.	Grade.	Net weight.	Capacity of can	Water.	Solids.	Condition of sample	
		oz.	cc.	oz.	oz.		No. of Sample.
Canada's Pride.		33.4	1070	11.6	21.8	Good	50281
Sanitary.....	Selected	34.5	1070	13.9	20.6	"	50282
Lynn Valley.....	Select	33.1	1045	13.8	19.3	"	50283
Little Chief		33.4	1030	16.4	17.0	"	50284
Maple Leaf	First Quality	34.9	1050	15.2	19.7	"	50285
Old Scout...		33.0	1000	11.9	21.1	"	50286
Harvester.		33.9	1035	17.5	16.4	"	50287
Thistle....	Selected	30.4	1030	15.8	14.6	"	51627
Lynn Valley.	Select.....	33.6	1020	14.0	19.6	"	51634
Boulton's	Famous	34.2	1040	17.6	16.6	"	51636

## JAS. HOGAN, INSPECTOR.

Highlander.	Superior	33.4	1010	9.4	24.3	Good	50781
Canada's Pride....		32.9	1040	15.1	17.8	"	50782
Old Scout.....		33.0	1020	18.6	14.4	"	50783
Peerless	Hand packed	34.2	1050	17.7	16.5	"	50784
Old Homestead.		33.0	1025	13.0	20.0	"	50785
Prince Edward's Choice..		35.6	1100	13.8	21.8	"	50786
Pride.							
Old Homestead		32.6	1040	15.5	17.1	"	50787
Thistle.....		33.8	1035	13.7	20.1	"	50788
Old Homestead.		33.3	1035	14.4	18.9	"	50789
Essex.....	Select	35.9	1060	13	22.0	"	50790



Date of Collec- tion.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF TORONTO—								
1912.								
Sept. 9	Canned Tomatoes	49472	Eby Blain Ltd., Front St., E., Toronto	3 cans	45	Clayton Orser Packing Co., Colborne, Ont		'Puritan.'
" 9	"	49473	Groceries, Ltd., 31 Front St., E., Toronto.	3 "	40	Church Bros Picton, Ont.		'Lasso.'
" 9	"	49474	F. W. Humph- rey, 47 Front St., E., Toron- to.	3 "	45	The Fort Mil- ford Packing Co. Ltd., Port Milford, Ont.		'Prince Edwards Pride.'
" 9	"	49475	Jas. Lumbers Co. Ltd., 67 Front St., E., Toronto.	3 "	40	The Pelham Cann. Co. Ltd Ridgeville.		'Pelham.'
" 9	"	49476	Medland Bros., 73 Front St., E., Toronto.	3 "	40	Aylmer Can- ning Co., Ltd., Aylmer.		'Canada First.'
" 10	"	49477	G. W. Perrault, 595 Parliment St., Toronto.	3 "	60	The Vineland Canning Co. Ltd., Vineland		'Vine.'
" 10	"	49478	J. W. Quacken- bush, 237 Ger- rard St. E., Toronto.	3 "	45	Beamsville Pre- serving Co., Beamsville.		'Peerless.'
" 12	"	49479	T. Eaton Co. Ltd., Queen & Yonge Sts., Toronto.	3 "	45	Sanitary Pack- ing Co., Wes- ton.		'W. G. T. Sani- tary.'
" 12	"	49480	Swan Bros., 169 King St. E., Toronto.	3 "	45	Jno. W. Hyatt Sons, West- lake.		'Sunset.'
" 12	"	49481	J. Page, 396 Spa- dina Ave., To- ronto.	3 "	45	Brighton Can- ning Co. Bri- ghton.		'Thistle.'
DISTRICT OF WINDSOR—								
Oct. 2	Canned Tomatoes	48147	R. Stirrett Co., Petrolia.	3 Cans	45	Vineland Can- ning Co., Vine- land.		'Vine Brand.'
" 2	"	48149	C. Matson, Pe- trolia.	3 "	45	E. D. Smith, Winona.		E. D. S. pure food packers.
" 2	"	48151	A. Duncan & Co., Wyoming	3 "	38	Lambton Pack- ing Co., Pe- trolia.		'Meadow Sweet'
" 2	"	48154	John E. Ander- son, Wyoming	3 "	45	Ont. Canners Ltd., Sarnia.		'Prairie' Toma- toes.
" 3	"	48157	A. H. Gammon & Son, Sarnia.	3 "	45	Ont. Canners Ltd., Sarnia.		'Prairie Toma-' toes.
" 3	"	48158	Jas. Galbraith, Sarnia.			Ont. Canners Ltd., Sarnia.		'Prairie' Toma- toes.
" 3	"	48159	Wm. Johnston, Sarnia.	3 "	45	Bloomfield Packing Co., Bloomfield, Ont.		'Quaker.'
" 3	"	48160	W. H. Tricker, Sarnia.	3 "	45	E. Sharp, Vir- ginia, U.S.		'Milden.'
" 4	"	48169	E. Gallagher, Strathroy.	3 "	45	Delhi Canning Co., Delhi.		'Maple Leaf.'
" 4	"	48170	O'Dwyer & Jay, Sarnia.	3 "	45	Tecumseh Can- ning Co., Te- cumseh.		'Tecumseh.'



SESSIONAL PAPER No. 14  
CANNED TOMATOES.

## RESULTS OF ANALYSIS.

Brand.	Grade.	Net weight.	Capacity of can.	Water.	Acidity.	Condition of Sample.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
<b>H. J. DAGER—INSPECTOR.</b>								
Puritan.....	Supreme..	oz. 34.9	cc. 1030	oz. 15.4	oz. 19.5	Good..	49472	
Lasso ..		32.8	1020	16.1	16.7	"	49473	
Prince Edwards Pride.	Choice...	34.6	1030	16.1	18.5	"	49474	
Pelham.....	High Grade..	34.5	1030	16.0	18.5	"	49475	
Canada First.....	Choice.....	28.2	2880	12.7	15.5	" ....	49476	
Vine.....	.....	34.3	1040	20.2	14.1	Slightly fermented	49477	
Peerless.....	Hand Packed	33.8	1035	14.4	19.4	Good.	49478	
Sanitary.....	High grade....	33.4	1020	19.5	13.9		49479	
Sunset.....	Hand Packed..	34.9	982	15.5	18.4		49480	
Thistle ..		34.5	1050	19.8	14.7	"	49481	

**JNO. TALBOT—INSPECTOR.**

Vine..		33.9	1030	11.4	22.5	Good.	48147	
E. D. Smith.....	Finest.	33.5	1050	12.4	21.1	"	48149	
Meadow Sweet....	.....	33.0	1050	13.3	19.7	"	48151	
Prairie. ....	Extra Quality..	33.8	1035	13.4	20.4	"	48154	
Prairie.....	Extra Quality.	33.3	1040	11.7	21.6	"	48157	
"	"	33.0	1040	13.2	19.8	"	48158	
Quaker.....	Hand Packed..	29.9	1050	11.4	18.5	"	48159	
Milden ..		33.4	1000	13.0	20.4	"	48160	
Maple Leaf.....	First Quality.	33.4	1040	16.2	17.1	"	48169	
Tecumseh ..		33.4	1045	15.6	17.8	"	48170	



Date of Collec- tion.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF MANITOBA

1912								
Sept. 17	Canned Tomatoes	48731	J. E. Manning, Sargent Ave. Winnipeg.	3 cans	55	The Delhi F. & Veg. Canning Co., Delhi, Ont.	Unknown.....	'Maple Leaf'
" 17	"	48732	R. Seymour,, Sargent Ave. Winnipeg.	3 "	55	Orsers, Bloom- field, Ont.	" .....	'Highlander'
" 17	"	48733	Conley & Yost, Sargent Ave., Winnipeg.	3 "	50	R. W. Messenger & Co. Federal burg.	" .....	'Lucky Horse Shoe
" 18	"	48734	B. Amason, Sar- gent Ave. Win- nipeg.	3 "	55	Orsers, Bloom- field, Ont.	" .....	'Highlander'
" 18	"	48735	C. Corneil, Lang side St., Win- nipeg.	3 "	45	The Delhi F. & Veg. Canning Co., Delhi, Ont.	" .....	'Maple Leaf'
" 18	"	48736	W. S. Shipman, Sargent, Ave., Winnipeg.	3 "	54	The Canning Co Picton, Ont.	" .....	'Old Homestead,
" 19	"	48737	M. Shiner, Emerson.	3 "	50	Orsers, Bloom- field. Ont.	.....	
" 19	"	48738	C. A. Whitman, Emerson.	3 "	50	The Garden City Cann. & Pres Co., St. Ca- therines, Ont.	.....	
" 23	"	48739	W. H. Morgan, Winnipeg.	3 "	60	Isaac Usher, St. Davids, Ont.	.....	
" 23	"	48740	Western Mercan- tile Co., Win- nipeg.	3 "	60	The Delhi F. & Veg. Canning Co., Delhi, Ont.	.....	'Maple Leaf'

DISTRICT OF NELSON—

Sept.	3	Canned Tomatoes	49686	Union Cash Gro cery, Nelson, B.C.	3 cans	50	Bayside Cann- ing Co., Al- viso, Cal., U. S.A.	
"	3	"	49693	Bell Trading Co. Nelson, B.C.	3 "	50	Balfour & Co., Hamilton.	'Tartan'.....
"	3	"	49694	Bell Trading Co. Nelson, B.C.	3 "	50	J. Lumbers & Co., Toronto.	'Glenrose'....
"	6	"	49696	Diamond Vale S. Co., Merritt B.C.	3 "	60	Brighton Can- ing Co., Brighton.	'Thistle'.. ....
"	6	"	49706	G B. Armstrong Merritt, B.C.	3 "	60	Canadian Can- ners, Hamil- ton.	'Faultless'.. ..
"	6	"	49707	" "	3 "	60	Bloomfield Pack ing Co., Bloom field.	'Quaker'.....
"	6	"	49710	Merritt Merc. Co., Merritt, B. C.	3 "	90	Code Portwood Canning Co., Fruitvale, Cal. U.S.A.	.....



SESSIONAL PAPER No. 14  
CANNED TOMATOES.

RESULTS OF ANALYSIS.							Remarks and Opinion of the Chief Analyst.
Brand.	Grade.	Net weight.	Capacity of can.	Water.	Solids.	Condition of Sample.	

## —A. C. LARIVIERE, INSPECTOR.

		oz.	cc.	oz.	oz.		
Maple Leaf.....	First Quality.	33.4	1050	16.9	16.5	Good.	48731
Highlander.....	Superior.....	33.7	1020	14.0	19.7	"	48732
Lucky HorseShoe.....		31.8	1030	11.3	20.5	"	48733
Highlander.....	Superior.....	33.8	1000	17.4	16.4	"	48734
Maple Leaf.....	First Quality	34.7	1035	10.4	24.3	"	48735
Old Home stand.		33.8	1045	18.7	17.1	"	48736
Highlander..	Superior Quality..	33.4	1000	14.5	18.9	"	48737
Garden City.	Choice.....	33.3	1025	15.1	20.2	"	48738
Home Grown.....		33.9	1040	11.7	21.6	"	48739
Maple Leaf.....	First Quality	32.0	1035	14.2	17.8	"	48740

## THOS. PARKER, INSPECTOR.

Bohemian	Choice	28.7	880	12.3	16.4	Good.	49689
Fartan...		33.9	1010	20.5	13.4	"	49693
Glenrose..		33.8	1025	12.0	21.8	"	49694
Thistle.		33.0	890	16.4	16.6	"	49696
Faultless..	Selected	28.7	890	15.8	12.9	"	49706
Quaker	Hand Packed.	28.7	900	14.1	14.6	"	49707
All Gold.....	Extra.	29.6	885	10.8	18.8	"	49710



Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NELSON—

1912.								
Sept.	9	Canned Tomatoes	49716	L. C. Masson, Revelstoke B.C.	3 cans	50	Mason Ehrman Co. Portland, Ore.	
"	9	"	49717	" "	3 "	50	Pratt Low Pre- serving Co., Santa Clara, Cal.	
"	9	"	49718	" "	3 "	50	Cutting Packing Co., San Fran- cisco, Cal.	

DISTRICT OF VANCOUVER

Sept.	25	Canned Tomatoes	38439	A. C. Barting, 8th Ave. and Granville St., Vancouver, B.C.	3 cans	40	California Can- ners, Ltd. San Francisco, Cal	
"	25	"	38440	A. MacFarlane, 1469 Broadw'y W. Vancouver B.C.	3 "	45	Wayne Packing Co., San Jose, Cal.	
"	25	"	38441	London Grocery 6th Ave. and Granville St., Vancouver, B.C.	3 "	45	Port Milford Packing Co., Port Milford, Ont.	
"	25	"	38442	Gruchy & Car- law, 5th Ave. and Granville, Vancouver, B.C.	3 "	45	Kelowna Pack- ing Co., Ke- lowna, Ont.	
"	25	"	38443	Samuel Bell, 2023 Granville St., Vancouver B.C.	3 "	40	Fruit Vale Can- ning Co., Fruit Vale, Cal., U.S.A.	
"	26	"	38844	Cook Bros., 1619 4th Av. West Vancouver B.C.	3 "	45	Cutting Packing Co., San Fran- cisco, Cal.	
"	26	"	38445	Webster Bros., Granville St., Vancouver, B.C.	3 "	45	Aylmer Canning Co., Aylmer, Ont.	
"	26	"	38446	Halpin's Gro- cery, 1169 Granville St., Vancouver, B.C.	3 "	45	Brighton Can- ning Co., Brighton, Ont	
"	26	"	38447	H. H. Owens, 1100 Granville St., Vancou- ver, B.C.	3 "	45	Pratt Low Pre- serving Co., Santa Clara, Cal., U.S.A.	
"	26	"	38448	London Grocery Granville St., Vancouver, B.C.	3 "	45	Christian Fritz, Vineland, Ont.	



SESSIONAL PAPER No. 14  
CANNED TOMATOES.

RESULTS OF ANALYSIS.								Remarks and Opinion of the Chief Analyst.
Brand.	Grade.	Net weight.	Capacity of can.	Water.	Solids.	Condition of Sample.	No. of Sam- ple.	
		oz.	cc.	oz.	oz.			
M. . .		28.0	880	14.2	13.8	Good	49716	
The Talisman	Selected.....	26.6	860	14.1	12.7	"	49717	
Cutting Packing Co.		28.2	860	18.5	10.7		49718	

## J. F. POWER, INSPECTOR.

Bear.....	California Toma- toes.	29.4	870	12.5	16.9	Good ....	38440
	"	28.5	885	11.6	16.9		38440
Prince Edward's Pride.....	Choice.	35.8	1080	15.8	20.0		38441
Orchard City.	Finest	34.5	1000	14.6	19.9	"	38442
Alamo.		29.4	855	12.5	16.9	"	38443
Cutting Packing. . Co.		29.1	890	14.3	14.8	"	38444
Canada First.....	Choice	29.2	885	11.4	17.8	"	38445
Thistle.	Selected.	28.7	890	9.7	19.0	"	38446
Talisman.	"	25.7	870	12.5	13.2	"	38447
Glenrose.		34.3	1050	12.1	22.2	"	38448



4 GEORGE V., A. 1914

BULLETIN No. 246—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VICTORIA—

1912								
Sept. 10	Canned Tomatoes	49228	Windsor Grocery Co., 817 Govt. S., Victoria, B.C.	3 cans	35	The Kelowna Canning Co., Ltd., Kelowna B.C.		"Kelowna".....
" 11	"	49229	The West End Grocery Co., Ltd., 1002 Government St., Victoria, B.C.	3 "	50	Bloomfield P. Co., Ltd., Bloomfield, Ont.		"Quaker".....
" 12	"	49230	Copas & Young, 631 Fort St., Victoria, B.C.	3 "	45	Balfour Smye, Co., Hamilt'n Ont.		"Tartan".....
" 16	"	49231	Acton Bros. 1317 Douglas St., Victoria B.C.	3 "	45	Bloomfield P. Co., Ltd., Bloomfield, Ont.		"Quaker".....
" 16	"	49232	H. & K. Grocery, 1425 Douglas St., Victoria, B.C.	3 "	50	Bayside Cann'g Co., Alviso, Santa Clara, Cal.		"Bohemian"....
" 18	"	49233	D. H. Ross & Co., 1317 Government St., Victoria, B.C.	3 "	50	The Kelowna Canning Co., Ltd., Kelowna, B.C.		"Kelowna"....
" 19	"	49234	Harrison & McDonald, Victoria, B.C.....	3 "	40	The Kelowna Canning Co., Ltd., Kelowna, B.C.		"Kelowna".....
" 20	"	49235	F. E. Plummer, 1118 Quadra St Victoria, B.C.	3 "	45	Bloomfield P. Co., Ltd., Bloomfield, Ont.		"Quaker".....
" 24	"	49236	G. J. Bailey, 758 Fort St., Victoria, B.C.	3 "	45	Bay Side Canning Co., Alviso, Santa Clara, Cal.		"Bohemian"....
" 25	"	49237	Erskine & Co., 861 Johnston St., Victoria, B.C.	3 "	45	Bloomfield Packing Co., Bloomfield, Ont.		"Quaker".....



SESSIONAL PAPER No. 14

## CANNED TOMATOES.

RESULTS OF ANALYSIS.								Remarks and Opinion of the Chief Analyst.
Brand.	Grade.	Net Weight.	Capacity of can.	Water.	Solids	Condition of Sample.	No. of Sam- ple.	
Kelowna.....	Finest.	20.8	660	8.6	12.2	Good.	49228	
Quaker.....	Hand packed	28.5	875	12.7	15.8	"	49229	
Tartan.....		33.4	1050	14.9	18.5	"	49230	
Quaker.....	Hand packed.	29.1	890	12.9	16.2	"	49231	
Bohemian	Choice.....	27.8	890	11.3	16.5	"	49232	
Kelowna	Finest	34.7	900	13.9	20.8	"	49233	
Kelowna.....	"	21.1	660	9.3	11.8	"	49234	
Quaker.....	Hand packed.....	28.7	890	11.6	17.1	"	49235	
Bohemian.....	Choice.	27.6	885	11.1	16.5	"	49236	
Quaker.	Hand packed.	20.4	625	9.5	10.9	"	49237	



APPENDIX K.

BULLETIN No. 247—CHEESE.

OTTAWA, January 9, 1913.

Wm. HIMSWORTH, Esq.,  
Acting Deputy Minister, Inland Revenue.

SIR,—I beg to hand you a report dealing with 141 samples of cheese, purchased throughout Canada in September and October, 1912.

The last inspection of Cheese occurred in October, 1908; and is reported in Bulletin No. 171 of this laboratory. In this Bulletin a recommendation for the standardization of Canadian Cheese was made, and the inspection then reported was held to justify as follows:—

- Water limit—30%.
- Fat (on dry substance) not less than 48%.

The samples submitted to analysis on that occasion had been wrapped in double paraffined paper, in order to prevent loss of water in the interval between their collection, and their examination here. This interval was between two and three months, and although the samples were meantime kept in cold storage, it was recognized that some loss of moisture must have taken place. In the variously suggested standards for Cheese in other countries no mention is made of water content; and my attention was later (March 1909) drawn to the fact that the water content of cheese is largely dependent upon the age of the article, the ordinary shrinkage of an 80 lb. cheese being from 2 to 3 pounds in the first month of ripening, and about one pound per month afterwards. (Letter from the Dairy and Cold Storage Commissioner, 29 March 1909).

In the present case an attempt has been made to learn the age of the cheese; and samples were enclosed in sealed bottles to prevent loss of moisture during shipment, and in storage. The results of analysis are therefore a better guide to the actual amount of moisture in market cheese, and particularly interesting when put into comparison with the table given on page 2 of Bulletin 171.

Inspection District.	No. of sample.	Percentage of water.		Mean.
		Maximum.	Minimum.	
Nova Scotia....	10	34.10	28.80	32.16
Prince Edward Island.....	10	33.80	22.50	30.18
New Brunswick .....	10	36.38	30.20	32.53
Quebec..	10	34.94	25.34	30.57
St. Hyacinthe .....	10	35.78	28.70	31.49
Montreal .....	10	37.62	26.28	31.26
Ottawa .....	11	36.76	25.46	31.74
Kingston .....	10	35.44	25.60	31.13
Toronto .....	10	32.00	22.94	28.70
Windsor.....	10	32.66	27.24	29.97
Manitoba.....	10	37.16	25.20	30.05
Nelson.....	10	35.52	27.20	32.34
Vancouver.....	10	32.76	26.80	30.08
Victoria.....	10	34.70	23.24	30.53
Total..	141			Mean 30.90



## SESSIONAL PAPER No. 14.

In view of these results, it is apparent that a somewhat wider limit for water than that suggested in Bulletin 171 may be justified, and it is possible that this might be set at 35%. The mean found for 141 samples now reported is 30.90%. For 237 samples of Bulletin 171, it was found to be 27.00%.

The fat, expressed as a percentage on the dry substance, is found to be as follows:—

Fat below 45%.....	None.
“ from 45 to 46%.....	12 samples.
“ “ 46 “ 47%.....	27 “
“ “ 47 “ 48%.....	28 “
“ “ 48 “ 49%.....	18 “
“ “ 49 “ 50%.....	13 “
“ above 50%.....	43 “
<hr/>	
Total.....	141

It thus appears that 74 samples, or more than fifty per cent of the collection, contain about 48 per cent of fat, calculated upon the dry substance of the cheese; while 102 samples, or over 70 per cent of the collection, contain above 47 per cent of fat. None of the samples in this collection contained less than 45 per cent of fat.

That a standard for fat in cheese should be established in the interest of both domestic and export trade, will readily be conceded. Of course the manufacture of whole milk cheese from normal milk, involves such periodic variation in the character of the cheese as corresponds to the variation found in milk itself, for the different seasons of the year. From this point of view it may be proper to consider a varying percentage of fat for cheese made at different periods of the year.

The data furnished herein, together with that found in Bulletin No. 171, may enable us to arrive at some desirable decision in this regard.

I beg to recommend the publication of this report as Bulletin No. 247.

I have the honour, to be, Sir,

Your obedient servant,

A. McGILL,  
Chief Analyst.



Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address. of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Re- port. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NOVA SCOTIA—								
1912								
Oct.	3 Cheese....	47117	Colchesters Co. F. Co-Op. assoen. Truro, N.S....	3 lbs.	54	Unknown.....	Black & Co. Truro, N.S....	No wax on rind.
"	4 " ....	47118	Smith Proctor Halifax, N.S.	2½ "	50	Hazlewood Fac- tory, P.E.I. ....		2 months old, no wax on rind.
"	4 " ....	47119	Rooney & Lo- vett, Halifax, N.S.....	2¼ "	45	Unknown.....	Purchased through a job- ber.....	P.E.I. cheese 3 months old, no wax.....
"	5 " ....	47120	B.E. Wight, Lu- nenburg, N.S.	2¼ "	45	" .....	Jno. Tobin & Co Halifax, N.S. ....	Age not stated, .. no wax.....
"	5 " ....	47121	J. S. Berringer, Lunenburg, N S.....	2¼ "	40	" .....	Wentzells, Ltd. Halifax, N.S. ....	Age not stated, no wax.....
"	7 " ....	47122	P. T. Shea, Ha- lifax, N.S.....	2¼ "	50	Clover Hill, N. B. Cheese Fac tory.....	Mfr.....	Said to be July cheese, no wax
"	7 " ....	47123	J. D. Stewart, Halifax, N.S.	2¼ "	40	Unknown.....	Jno. Tobin & Co Halifax, N.S. ....	About 2 months old, no wax. Said to be P.E.I. cheese.
"	7 " ....	47124	Jas. Hogan, Ha- lifax, N.S.....	2¼ "	45	" .....	Nickerson & Hart.....	3 months old, no wax. Sold as P.E.I. cheese.
"	8 " ....	47125	S. Thomson, Dartmouth, N.S.....	2¼ "	45	F. W. Fearman Hamilton, Ont	Mfr.....	4 months old, no wax.....
"	8 " ....	47126	G. A. Orman, Dartmouth, N.S.....	2¼ "	45	Unknown.....	Unknown.....	Sold as KingsCo N.S. cheese, 2 ms. old, no wax...
DISTRICT OF PRINCE EDWARD ISLAND—								
Sept.	6 Cheese....	46217	R. J. Maddigan & Co ChTown P.E.I.....	3 lbs	54		Carbell Bros., ChTown, P. E.I.....	This season's make not cov- ered with Par- affin or wax..
"	6 " ....	46218	Grant & Co., Ch, Town P. E.I.....	3 "	54		A. J. Biffin, Ch- Town P.E.I. ....	" "
"	7 " ....	46219	A. Gates & Co., ChTown, P. E.I.....	3 "	54		Dillon & Spillet Ch Town, P. E.I.....	" "
"	14 " ....	46220	Coffin & Co. Ch- Town, P.E.I..	3 "	54	Unknown.		" "
"	17 " ..	46221	George Forbes, Vernon River Bridge P.E.I.	3 "	48	Vernon River F. Vernon River P.E.I. ....		" "
"	21 " ..	46222	Sanderson & Co. ChTown, P. E.I.....	3 "	54	Unknown.....		" "
ct.	1 " ..	46223	Brace McKay & Summerside, P.E.I.....	3 "	51	Lot 16 Cheese Factory P.E.I		" "
"	1 " ....	46224	Sinclair & Stew- art, Summer- side, P.E.I....	3 "	55	Egmont Bay F. P.E.I.....		" "
"	3 " ....	46225	A. Currie & Co., Souris, P.E.I.	3 "	60	Souris Cheese F. P.E.I.....		" "
"	3 " ....	46226	J. J. Hughes, Souris P.E.I.	3 "	54	Souris Dairying Co Souris, P. E.I.....		" "



SESSIONAL PAPER No. 14

CHEESE

RESULTS OF ANALYSIS						No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Water.	Fat.	Total Ash.	Salt in Ash.	Curd by Difference.	Per cent on dry substance		

R. J. WAUGH, INSPECTOR.

p.c.	p.c.	p.c.	p.c.	p.c.			
31.70	32.40	3.30	1.12	32.30	47.43	47117	
31.86	33.00	3.80	1.22	31.34	48.43	47118	
33.36	33.00	3.32	1.09	30.32	49.52	47119	
34.10	31.20	3.40	0.59	31.30	47.34	47120	
33.98	31.20	3.44	0.86	31.48	47.25	47121	
28.80	37.20	3.72	1.15	30.28	52.24	47122	
33.86	32.40	3.14	1.32	30.60	48.98	47123	
34.20	34.20	2.74	0.70	31.86	49.69	47124	
32.60	33.00	3.80	1.48	30.60	48.94	47125	
30.22	36.00	3.66	1.18	30.12	52.58	47126	

WM. A. WEEKS, INSPECTOR.

30.34	36.00	2.92	0.65	30.74	52.68	46217	
27.90	34.20	3.38	0.82	34.52	47.43	46218	
31.80	33.60	3.96	1.18	30.64	49.26	46219	
27.74	34.20	3.60	1.09	34.46	47.33	46220	
33.80	33.00	3.46	1.21	29.74	49.84	46221	
30.80	33.00	4.20	1.32	32.00	47.39	46222	
30.60	36.00	3.76	1.15	29.64	51.87	46223	
33.80	30.00	3.60	0.60	32.60	45.32	46224	
22.50	36.00	4.28	1.25	37.22	46.45	46225	
32.54	31.20	3.30	1.09	32.96	46.24	46226	



Date of Collec- tion.	Nature of Sample.	No. of Sam- ple.	Name and Address. of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor		Inspector's Re- port. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NEW BRUNSWICK

1912.								
Sept.	9	Cheese...	45690 Vanwart Bros., St. John, N.B.	3 lbs .	60	.....	Northrup & Co., St. John, N.B.	Kings Co., N.B. cheese.
"	10	"	45691 McPherson Bros. St. John, N.B.	3 " ..	72	F. W. Fearman Co.Ltd. Ham- ilton, Ont.	.....	e, 1912....
"	11	"	45692 Walter Gilbert, St. John, N.B.	3 " ..	48	McLaren Imper- ial Cheese Co. Toronto.		Paraffin waxed June Cheese.
"	11	"	45693 H. S. Francis, St. John, N.B.	3 " ..	60	.....	G. E. Barbour Co., Ltd., St. John, N.B.	Albert Co., N.B. Cheese. Un- waxed Twin Cheese No. 27238.
"	14	"	45694 H. L. Alexander. St. John, N.B.	3 " ..	60	.....	G. S. DeForest & Sons, St. John, N.B.	Twin Cheese,un- waxed No. 76. N.B. Cheese.
"	19	"	45695 Estate of J. Fred Shaw, St. John, N.B.	3 " ..	52	.....	H.W. Cole,Ltd., St. John, N.B.	Twin Cheese,un- waxed.
Oct.	3	"	45696 G. T. Whelpley Estate, Fred- erickton, N.B.	3 " ..	54	.....	H.W. Cole,Ltd., St. John, N.B.	Unwaxed P.E.I Cheese.
"	4	"	45697 Yerxa Grocery Co., Wood- stock, N.B.	3 " ..	54	.....	A. F. Randolph & Son, Fred- erickton, N.B.	June Cheese. Twin Cheese. Unwaxed.
"	15	"	45698 Mills Eveliegh, Ltd., Sussex, N.B.	3 " ..	54	Mount Middle- ton Factory, Kings Co., N.B.	.....	Twin Cheese,un- waxed.
"	16	"	45699 The 2 Barkers, Ltd., Moncton N.B.	3 " ..	54	Thos. G. Perry, Lower Ridge, N.B.		" "

DISTRICT OF QUEBEC—

Sept.	3	Cheese....	37462 Eudore Delisle, 2 Ave. Tacher- eau, Quebec.	2 lbs .	40	Unknown...	Octave Jacques,	Age unknown...
"	4	"	37463 O. Lacroix, 19 rue St. Joseph, Quebec.	2 " ..	44	McLaren's Im- perial Cheese Co., Toronto.	.....	Spring Cheese..
"	5	"	37464 W. Cantin, 133 rue du Pont, Quebec.	2 " ..	40	.....	Dom. Fish & F. Co.	Age unknown...
"	6	"	37465 G. Gingras, 268 rue du Roi, Quebec.	2 " ..	40	Unknown. ....	Emond & Cote.	Spring Cheese..
"	9	"	37466 Cantin & Frere, 271 rue St. Jos- eph, Quebec.	2 " ..	30	"	J. B. Reneaud & Cie.	Age unknown...
"	10	"	37467 C. S. Riverin, 50 rue de la Cou- ronne, Quebec.	2 " ..	40	Gagne L'Ance, St. Jean Chi- coutimi.	Philbert Bou- cher.	Made in Aug., 1912.



SESSIONAL PAPER No. 14

## CHEESE.

RESULTS OF ANALYSIS.						No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Water.	Fat.	Total Ash.	Salt in Ash.	Curd by Difference.	Fat on dry Substance		

J. C. FERGUSON, INSPECTOR.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
31.10	33.60	3.20	0.82	32.10	48.60	15690	
30.20	31.80	2.40	0.63	35.60	45.56	15691	
30.50	31.80	3.26	0.76	34.44	45.75	15692	
33.86	32.40	3.91	1.05	29.80	48.80	15693	
32.80	35.40	2.60	0.69	29.20	52.67	15694	
32.00	36.00	3.30	0.78	28.70	52.74	15695	
32.08	33.60	3.42	0.72	30.90	49.40	15696	
34.20	31.60	3.96	1.18	30.24	48.02	15697	
36.38	31.80	3.80	1.12	28.02	46.62	15698	
32.20	33.60	3.60	0.98	30.60	49.55	15699	

F. X. W. E. BELAND, INSPECTOR.

28.22	37.20	3.06	0.92	31.22	51.82	37462	
31.70	34.80	3.94	0.89	29.56	50.95	37463	
25.34	37.20	3.86	0.72	33.60	49.87	37464	
29.50	33.00	3.80	1.02	33.70	46.80	37465	
28.82	37.20	2.90	0.69	31.08	52.26	37466	
34.94	33.60	2.74	0.66	28.72	51.64	37467	



Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address. of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Re- port. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF QUEBEC—

1912.								
Sept. 11	Cheese...	37468	Myrand & Pouliot, 70 rue de la Couronne, Quebec.	2 lbs..	38	Unknown.....	J. B. Reneaud & Cie.	Age Unknown ..
" 12	"	37469	Arthur Drolet, 714 rue St. Valier, Quebec.	2 "	49	"	Dom. Fish & Fruit Co.	"
" 13	"	37470	Arthur Rinfret, 614 rue St. Joseph, Quebec	2 "	39	"	O. Jacques.....	"
" 16	"	37471	Hamel & Bedard, 728 rue St Valier, Quebec	2 "	40	Jos. Boucher, St. Hyacinthe.	Manufacturer...	Made in June, 1912.

DISTRICT OF ST. HYACINTHE—

Sept. 18	Cheese...	1401	Geo. Beaulac, Sorel.	1½ lb.	32	Mr. Choquette, Mont. Johnson.	P. C. Lemoine, Sorel.	
" 17	"	1402	Schooner & Cie, Pierreville.	2½ "	40	.....	Laporte, Martin & Cie, Montreal.	
" 24	"	1403	H. Claprood, St. Jean.	1½ "	35	Thos. Barriere, St. Gregoire.		
" 25	"	1404	Art. Maclean, Bedford.	1½ "	37		Forbes Bros., Montreal.	
" 26	"	1405	O. C. Selby, Dunham.	2 "	36	J. Strong, West Sutton.		
Oct. 1	"	1406	L. H. Olivier, Sherbrooke.	1½ "	37	L. A. Corriveau, Magog.		
" 2	"	1407	E. Huard & Cie, Megantic.	2 "	36		L. Chaput fils & Cie, Montreal.	
" 3	"	1408	Gurin & Boulay, Coaticook.	2½ "	38		"	
" 8	"	1409	J. A. Moquin, Eastman.	2 "	36	Unknown.....	Unknown.....	
" 14	"	1410	Thos. Hebert, St. Hyacinthe	2½ "	50	.....	Gunn, Langlois & Cie.	

DISTRICT OF MONTREAL—

Sept. 25	Cheese...	50921	M. Kilkerry, 208 M. R. Ave. E., Montreal.	2 lbs..	40	.....	Gunn, Langlois & Co.	Paraffin Coated.
" 25	"	50922	L. J. Pharneuf, 541 M. R. Ave E., Montreal.	2½ "	45	Unknown.....	Unknown...	
" 25	"	50923	E. St. Germain et Cie, 591 M. R. Ave. E., Montreal.	2 "	40	.....		
" 26	"	50924	A. Deslieres, 1130 A, Andre St., Montreal.	2 "	40	.....	Whyte Packing Co.	Paraffin Coated.



## SESSIONAL PAPER No. 14

## CHEESE.

RESULTS OF ANALYSIS						No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Water.	Fat.	Total Ash.	Salt Ash.	Curd by Difference.	Fat in dry substance.		
<i>Continued</i>							
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
32.70	36.00	3.30	0.85	28.00	53.49	37468	
32.14	32.40	3.28	0.88	31.00	47.74	37469	
31.80	33.00	3.12	1.15	32.08	48.08	37470	
30.52	37.80	3.08	0.86	28.00	51.40	37471	

## J. C. ROULEAU, INSPECTOR.

28.70	37.20	2.70	0.40	31.40	52.17	1401
35.78	30.00	3.40	0.80	30.82	50.06	1402
30.20	33.00	3.30	0.92	32.90	49.11	1403
31.08	36.00	3.30	0.82	29.62	52.00	1404
34.28	30.00	3.38	0.80	31.74	49.40	1405
31.10	36.00	2.90	0.72	30.00	52.10	1406
30.10	32.40	3.78	1.28	33.72	52.34	1407
29.60	33.60	3.20	1.05	31.00	47.72	1408
32.36	35.40	3.50	1.32	28.74	52.08	1409
31.72	36.00	3.76	0.90	28.52	52.72	1410

## J. J. COSTIGAN, INSPECTOR.

29.98	32.40	3.46	0.86	31.16	46.24	50921
28.42	33.60	3.86	1.25	34.12	43.04	50922
29.04	36.06	3.60	1.35	30.74	51.02	50923
32.90	31.20	3.70	1.12	32.20	46.50	50924



Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Re- port. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF MONTREAL—

1912.								
Sept. 26	Cheese...	50925	S. Lalonde et fils, 578 Marie Ann E., Mont- real.	2 lbs. 3 oz.	43	.....	W. Champagne, Montreal.	.....
" 26	"	50926	P. Brunet fils et Cie, 699 M. R. Ave. E., Mont- real.	2 lbs..	40	.....	Z. Limoges, Montreal.	.....
" 26	"	50927	H. Longtin, 347 Boyer St., Montreal.	2 "	38	Unknown.....	Unknown.....	Paraffin Coated.
" 26	"	50928	Swift's Prov. Store, Fair- mount Ave., Montreal.	2 "	46	.....	Whyte Packing Co.	.....
" 26	"	50929	D. Hamilton, 71 Fairmount Ave., Mont- real.	2 "	38	.....	Z. Limoges, Montreal.	.....
" 26	"	50930	"	2 "	48	.....	"	.....

DISTRICT OF OTTAWA—

Aug. 31	Cheese	.. 50202	C. A. Farmer & Son, Perth Ont	3 lbs.	60	3rd line, Bath- urst, Factory	.....	Labelled M.14 on Box, not coated with paraffin.
Sept. 4	"	50203	A. S. Moreland, Ottawa.	"	"	.....	.....	Made in June at Bourget, Ont.
" 6	"	.. 50204	F. H. Clifford, Brockville.	"	"	Strong & Clark.	Derbyshire, Brockville.	Roseville Brand coated with paraffin.
" "	"	.. 50205	J. Culbert, Brockville.	"	"	Geo. Carr, Fairfield.	Mfr.....	Made in June, not coated.
" 7	"	.. 50206	Jas. H. Bradley, Prescott.	"	57	Jno. Tretwell, Grenville Fac- ory.	.....	Made in August, not coated.
" 16	"	.. 50207	E.M. Lerner & Son, Ottawa.	4 1/4 "	71	J. Campbell, Ormond.	.....	" "
" 16	"	.. 50208	J. Moyneur, Ltd Ottawa.	2 1/2 "	38	C. St. Onge, Embrun.	.....	" "
" 16	"	.. 50209	Matthews, Laing Ltd By Ward Mark. Ottawa.	2 1/4 "	45	Unknown	.....	Made Sept., 1911 at Jockvale, ; Ont.
" 16	"	.. 50210	J. Freedman, Ottawa.	4 3/4 "	73	Fairview Fact- ory, West Templeton.	.....	Made in August.
" 18	"	.. 50211	R. Harrison, Merrickville..	2 "	35	Rideau Valley.	.....	Made in July.
" 20	"	.. 51626	McDonald Bros. Gladstone Av Ottawa.	3 "	38	G. H. Taylor, Dalmeny, Ont	.....	"Gordon Model Factory— made in Aug- ust.



SESSIONAL PAPER No. 14

## CHEESE.

## Table of Results.

Wt.	Fat.	Total Ash.	Acid in Ash.	Total Wt. 250°	Wt. on dry	No. of Sample.	Remarks, and Opinion of the Analyst.
31.88	35.40	3.60	1.02	32.70	49.32	50200	
31.90	34.80	3.14	1.00	32.60	47.50	50201	
31.91	33.00	3.24	1.00	32.64	47.50	50202	
31.90	34.80	3.14	0.92	32.20	46.30	50203	
31.90	30.00	2.74	1.02	32.60	46.30	50204	
32.82	30.80	2.94	0.66	32.44	47.48	50205	

J. A. RICKEY, INSPECTOR.

32.44	35.40	3.74	1.08	32.70	47.50	50202	
32.26	32.40	3.84	1.00	31.40	47.50	50203	
32.26	30.20	3.46	0.85	29.58	47.50	50204	
32.26	31.80	3.62	1.08	31.78	47.32	50205	
32.26	29.40	3.46	1.00	31.98	45.33	50206	
32.26	31.80	3.48	0.85	32.60	46.85	50207	
32.40	32.40	3.00	0.69	30.20	47.92	50208	
28.74	37.20	4.00	0.82	30.70	52.20	50209	
25.46	30.00	4.00	1.25	34.88	48.30	50210	
32.88	30.60	3.58	1.45	32.94	45.58	50211	
23.48	33.00	4.08	1.61	30.44	40.10	50212	



Date of Collec- tion.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Re- port. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF KINGSTON—

1912.							
Sept. 3	Cheese....	50701	Wm. Davies, Kingston.	3 lbs.	54	J. Gibson, Kingston.	Made in May.
" 3	" ..	50702	J. Gilbert, Kingston.	2 1/2 "	50	A. E. Bradshaw Harrowsmith.	
" 3	" ..	50703	J. E. Purdy, Kingston.	2 "	40	A. McLean, Kingston.	
" 3	" ..	50704	J. Campbell, Kingston.	2 1/2 "	50	J. Y. Parkhill, Kingston.	
" 3	" ..	50705	J. A. Percy.... Kingston.	2 1/2 "	50	J. Y. Parkhill, Kingston.	
" 3	" ..	50706	W. J. Arnill,.... Kingston.	2 "	36	A. Maclean,..... Kingston.	
" 4	" ..	50707	W. E. Hopkin- son, Kingston.	2 1/2 "	45	Unknown	
" 4	" ..	50708	H. M. Stover, . Kingston.	2 "	36	J. Y. Parkhill, Kingston.	
" 4	" ..	50709	W. J. Lee, Kingston.	2 "	36	J. Y. Parkhill, Kingston.	
" 4	" ..	50710	P. A. Happner, Kingston.	4 "	31	A. Maclean,.... Kingston.	

DISTRICT OF TORONTO—

Sept. 10	Cheese .	49482	A. E. Browne, 198 A Carlton St. Toronto.	2lbs.	36	McLaren's Im- perial Cheese Co., Toronto.	Vendor says he is quite sure cheese was coated with paraffin.
" 10	"	49483	D. M. Cooper, 230 Wellington St., Toronto.	2 "	40	Willard & Co., Prov. Merch- ant, Toronto.	
" 10	"	49484	C. Grant, 257 Gerard St., east, Toronto.	2 "	40	John J. Fee, Toronto.	
" 11	"	49485	H. Vankouhnet, 163 Wilton ave., Toronto.	2 "	45	Rutherford-Mar- shall, Ltd., To- ronto.	
Sept. 11	"	49486	J. & W. McFar- ren, 214 Queen st. east, Toronto.	2 "	43	McLaren's Im- perial Cheese Toronto.	Made in June and coated with paraffin.
" 11	"	49487	G. Robertson, 108 Shuter St., Toronto.	2 "	38	Willard & Co., Toronto.	
" 12	"	49488	E. K. Scolay & Co., 63 Jarvis St., Toronto.	2 "	34	Gunns, Ltd., Toronto.	
" 12	"	49489	C. F. Thorne, 107 Wessan St Toronto.	2 "	40	McLarens Im- perial Cheese Co., Toronto.	Vendor says he is quite sure of its being coat- ed with par- affin.
" 12	"	49490	John Davison, 1 Bathurst St., Toronto.	2 "	42	Morely & Ew- ing, Toronto.	
" 12	"	49491	A. White, 438 College St., Toronto.	2 "	42	Matthews Laing Ltd., Toronto	



SESSIONAL PAPER No. 14

## CHEESE.

Composition of Samples.

Water.	Fat.	Total Ash.	Salt Ash.	Curd by Differ- ence.	Fat on dry Substance	Moisture and Fat on 100 parts of Dry Matter
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JAS. HOGAN, INSPECTOR.

Mo.	per.	per.	per.	per.	per.	per.
32.00	33.00	1.20	0.94	31.36	47.05	100.00
32.30	32.40	1.40	0.95	31.35	47.05	100.00
32.40	32.40	1.40	0.95	31.35	47.05	100.00
32.74	32.40	1.40	0.95	31.35	47.05	100.00
33.40	32.40	1.40	0.92	31.36	47.05	100.00
39.50	32.40	1.40	1.05	34.20	46.06	100.00
27.81	32.40	1.40	0.95	31.35	47.05	100.00
25.69	32.40	1.40	1.00	31.35	47.05	100.00

H. J. DAGGER—INSPECTOR.

32.00	31.20	1.20	0.94	31.36	47.05	100.00
30.98	33.00	1.20	0.94	31.36	47.05	100.00
31.40	32.40	1.40	1.05	34.34	47.05	100.00
31.40	32.40	1.40	0.95	32.01	48.19	100.00
28.96	32.40	1.40	0.95	31.24	47.69	100.00
28.25	32.40	1.40	0.95	31.24	47.69	100.00
29.69	32.40	1.40	0.90	34.20	46.06	100.00
28.96	36.00	1.20	0.85	32.74	48.00	100.00
26.16	34.80	1.30	0.95	35.74	47.12	100.00
22.91	35.40	1.20	1.15	37.86	46.51	100.00



4 GEORGE V., A. 1914

BULLETIN No. 247—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF WINDSOR—

1912.								
Sept. 5	Cheese....	48276	E. R. Newman, London, Ont.	2 lbs.	40		J. Garvey & Son London, Ont.	Not Paraffined.
" 5	"	48278	Thos. Shaw, London, Ont.	3 "	60		Masuret & Co., London, Ont.	"
" 5	"	48280	P. Sands, Lon- don, Ont.	3 "	70		A. M. Smith & Co., London, Ont.	"
" 6	"	48281	H. Ranshaw, don, Ont.	2½ "	62		"	Made in Jun 1912.
" 6	"	48282	Willis & Co., London, Ont.	3 "	58	Thorndale Cheese Fac- tory.		Not paraffined. Made in May, 1912.
" 6	"	48283	John Diprose, London, Ont.	3 "	50		A. W. Smith & Co., London, Ont.	Not paraffined. Made in June, 1912.
" 6	"	48284	Jas. O'Donnell, London, Ont.	2½ "	45		Jas. Morley, London, Ont.	Not Paraffined.
" 9	"	48285	R. McIntosh, London, Ont.	2½ "	60		Scandreth Bros. London, Ont.	"
" 9	"	48286	R. J. Wood, Lon- don, Ont.	2½ "	"		Jas. Morley, London, Ont.	"
" 9	"	48287	Wm. Smith, London, Ont.	2½ "	45		J. Garvey & Son London, Ont.	"

## DISTRICT OF MANITOBA—

Sept. 12	Cheese....	48741	Peter Watt, Transcona.	3 lbs.	65	Unknown.....	Gordon Ironside & Fares Co., Winnipeg.	Canadian made.
" 17	"	48742	J. E. Manning, Sargent Ave., Winnipeg.	3 "	60	"	The Jobin Mar- rin Co., Ltd..	"
" 17	"	48743	R. Seymour, Sargent Ave., Winnipeg.	3 "	60	"	Unknown.....	"
" 17	"	48744	McKenzie and Reeve, Sar- gent Ave W'pg	3 "	65	"	"	"
" 17	"	48745	Conly & Yost, Sargent Ave., Winnipeg.	3 "	60	"	A Macdonald & Co., Winnipeg.	"
" 18	"	48746	B. A m a s o n, Sargent Ave., Winnipeg.	3 "	60		Campbell Bros. and * Wilson, Winnipeg.	
" 18	"	48747	C. C o r n e i l, Langside St., Winnipeg.	3 "	60		The Codville Co Winnipeg.	
" 18	"	48748	W. S. Shipman, Sargent Ave., Winnipeg.	3 "	66		The Codville Co., Winnipeg.	
" 30	"	48749	P. H. Menlove, Winnipeg.	3 "	60		The * Codville Co., Winnipeg.	
" 30	"	48750	Templeton & Co., Winnipeg.	3 "	60		A. Macdonald & Co., Winnipeg.	



SESSIONAL PAPER No. 14

CHEESE.

RESULTS OF ANALYSIS						No. of	Remarks, and Opinion of the Chief Analyst.
Water	Fat.	Total Ash.	Ash in Ash.	Curd by Differ- ence.	Fat on dry Substance		

JOHN TALBOT, INSPECTOR.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	
29.54	36.60	3.70	1.05	30.06	52.01	48276
31.92	34.20	3.64	0.76	30.24	50.23	48277
29.20	33.60	3.99	0.99	30.00	47.45	48280
29.00	33.00	2.30	1.05	30.70	45.40	48281
27.24	34.00	3.60	0.92	32.56	50.30	48282
28.00	34.80	3.80	0.92	33.40	48.33	48283
31.10	31.20	3.76	0.86	33.94	45.28	48284
30.92	34.80	3.26	0.86	31.02	50.07	48285
32.60	31.20	3.70	0.86	32.44	46.32	48286
30.00	33.60	3.20	0.86	32.84	48.00	48287

A. C. LARIVIERE, INSPECTOR.

31.20	32.40	2.76	0.86	33.64	47.09	48741
29.74	32.40	3.36	0.92	34.50	46.25	48742
37.16	30.00	4.58	1.02	28.26	47.77	48743
31.54	32.40	3.50	0.72	32.76	47.32	48744
25.20	37.80	4.28	1.55	32.72	50.53	48745
28.72	32.40	3.74	1.18	35.14	45.45	48746
28.44	34.20	3.40	0.69	33.96	47.79	48747
27.46	32.00	2.72	0.80	36.22	46.32	48748
29.82	36.00	3.60	1.18	30.58	51.29	48749
31.30	32.00	3.66	1.15	31.44	48.00	48750



Date of Collec- tion.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Re- port. (Is not an expression of opinion.)
				Quantity.	Cent.	Manufacturer.	Furnisher.	

DISTRICT OF NELSON—

1912.								
Sept. 3	Cheese....	49684	M. Scally, Nelson, B.C..	2 lbs.	45	.....	Swift Canadian Co., Nelson,	Waxed.....
" 3	" .....	49695	Bell Trading Co Nelson, B.C..	2 "	45	.....	Olive Dorin, Strand, Mon- treal.	.....
" 6	" .....	49697	Diamond Vale T. Co., Mer- ritt, B.C.	2 "	50	.....	Kelly Douglas Co., Vancou- ver.	Waxed. ....
" 3	" .....	49705	G. B. Armstron' Merritt, B.C.	2 "	50	.....	F. R. Stewart & Co., Vancou- ver.	" .....
" 9	" .....	49723	L. C. Masson, Revelstoke, B.C.	2 "	50	.....	P. Burns & Co., Revelstoke, B.C.	Not waxed....
" 9	" .....	49728	Bourne Bros., Revelstoke, B.C.	2 "	50	.....	P. Burns & Co., Revelstoke, B.C.	" .....
" 10	" .....	49738	C. B. Hume & Co., Revel- stoke, B.C.	2 "	50	.....	J. D. Moore & Co., St. Marcy's.	" .....
" 10	" .....	49743	Revelstoke Meat Mkt., Revel- stoke, B.C.	2 "	50	.....	Swift Canadian Co., -Edmon- ton.	" .....
" 23	" .....	49744	C. A. Warren, Golden, B.C.	2 "	50	.....	Plunkett and Savage, Cal- gary.	" .....
" 23	" .....	49751	H. G. Parson, Ltd., Golden, B.C.	2 "	50	.....	Kelly, Douglas Co., Vancou- ver.	Waxed. ....

DISTRICT OF VANCOUVER—

Sept. 27	Cheese....	38399	W. H. Walsh Co Ltd., Eburne, B.C.	1 lb...	25	Unknown.. ....	Naismith & Co. Vanc.	.....
" 27	" .....	38400	Eburne Grocery Eburne, B.C..	1 "	25	" .....	W. H. Matkin & Co., Vanc. ..	.....
" 27	" .....	38401	T. W. Turner, Pender St., Vancouver.	1 " ..	20	" .....	F. R. Stewart, Vanc .....	.....
" 27	" .....	38402	Eburne Trading Co., Eburne, B.C.	1 "	20	" .....	F. R. Stewart, Vanc.	.....
" 27	" .....	38403	David Spencer, Ltd., Van..	1 "	20	Ingersoll Cheese Co., Ingersoll, Ont.	.....	.....
" 28	" .....	38404	Frank Wright, Seymour St., Van.	1 " ..	20	Unknown.....	F. R. Stewart, Vanc.	.....
" 28	" .....	38405	W. Cowling, 1374 Pender St., Van.	1 "	25	" .....	Milne Produce Co., Vanc.	.....
" 28	" .....	38406	D. McGregor, Pender St. W., Vancouver.	1 "	25	" .....	Milne Produce Co., Vanc.	.....
" 28	" .....	38407	J. Johnson, 1112 Pender St., W, Vancouver.	1 "	25	" .....	Kelly Douglas, Vanc.	.....
" 28	" .....	38408	J. R. Gosling, 1 942 Pender W, Vancouver.	1 "	25	" .....	Milne Produce Vanc.	.....



SESSIONAL PAPER No. 14

## CHEESE.

RESULTS OF ANALYSIS.						No. of	Remarks, and Opinion of the Chief Analyst.
Water	Fat.	Total Ash.	Salt in Ash.	Curd by Differ- ence.	Substance		

THOS. PARKER, INSPECTOR.

31.20	31.80	3.42	0.78	33.58	46.22	19684	
35.52	30.00	3.30	0.63	31.18	46.51	49695	
33.40	31.20	3.40	0.78	32.00	46.47	19697	
33.80	31.20	3.40	0.66	32.50	47.11	19705	
27.20	36.00	4.30	1.13	32.50	49.45	19723	
35.00	30.00	3.40	0.72	32.08	46.00	19729	
30.44	33.00	2.80	0.56	33.80	47.11	19738	
34.00	30.00	3.11	0.59	32.80	45.56	19743	
31.10	33.60	3.50	0.81	31.80	48.76	19744	
31.68	33.00	3.80	0.92	30.52	48.96	19751	

J. F. POWER, INSPECTOR.

30.60	36.00	2.64	0.66	30.76	48.80	38400	
32.32	33.00	3.16	0.63	30.92	49.64	38402	
29.00	33.00	2.80	0.59	35.20	46.48	38441	
30.48	33.60	3.20	0.59	32.72	48.33	38400	
30.58	33.00	3.22	0.66	29.90	51.86	38403	
32.76	31.80	2.82	0.86	30.00	51.75	38404	
26.90	37.20	3.60	0.95	32.30	50.88	38405	
31.60	34.80	3.06	0.59	30.54	50.08	38406	
29.80	37.20	3.22	0.86	29.78	52.90	38407	
29.80	37.20	3.60	0.95	30.00	51.00	38408	



Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Re- port. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VICTORIA—

1912								
Sept. 10	Cheese....	49168	Windsor Groery Co., 817 Douglas St., Victoria, B.C.	2 lbs.	50		F. R. Stewart & Co., Victoria, B.C.	
" 11	"	49169	The west End Grocery Co., Ltd., 1002 Govt. St., Victoria, B.C.	2 "	50		R. P. Rithet & Co., Victoria, B.C.	
" 12	"	49170	Copas & Young, Victoria, B.C.	2 "	40		F. R. Stewart & Co., Victoria, B.C.	
" 16	"	49171	Acton Bros., Victoria, B.C.	2 "	45		Swift Canadian Co., Victoria, B.C.	
" 16	"	49172	H. & K. Grocery Victoria, B.C.	2 "	50	McLarens Imperial Cheese Co., Ltd., Ingersoll, Ont.		
" 18	"	49173	D. H. Ross & Co., Victoria, B.C.	2 "	50		Swift Canadian Co., Victoria, B.C.	
" 18	"	49174	Harrison & McDonald, Victoria, B.C.	2 "	50		Naismith & Co. Vancouver,	
" 20	"	49175	F. E. Plummer, Victoria, B.C.	2 "	50		Simon Leiser & Co., Victoria, B.C.	
" 24	"	49176	E. G. Bailey, Victoria, B.C.	2 "	50		Swift Canadian Co., Victoria, B.C.	
" 25	"	49177	Erskine & Co., Victoria, B.C.	2 "	50		R. P. Rithet & Co., Victoria, B.C.	



SESSIONAL PAPER No. 14

## CHEESE.

## RESULTS OF ANALYSIS.

Water.	Fat.	Total Ash.	Salt Ash.	Curd by Difference.	Fat on Curd Substance	No. of Sample.	Remarks and Opinion of the Chief Analyst.

D. O'SULLIVAN, INSPECTOR.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
30.74	30.00	3.80	1.25	30.98	50.80	19168	
31.56	31.80	3.02	0.87	31.62	50.11	19169	
34.70	31.20	2.80	0.72	31.30	41.77	19170	
29.16	30.00	3.86	0.92	33.38	47.41	19171	
31.40	31.20	3.58	0.80	31.80	46.84	19172	
33.30	31.20	3.32	0.80	32.18	46.77	19173	
32.32	32.40	3.40	0.92	31.88	47.81	19174	
27.80	34.80	3.20	0.99	31.20	48.20	19175	
28.40	26.00	3.54	0.72	29.83	41.87	19176	
30.20	35.40	3.10	0.80	31.30	50.71	19177	



APPENDIX L.

BULLETIN No. 248—GROUND BLACK PEPPER.

OTTAWA, Jan. 25, 1913.

WM. HIMSWORTH, Esq.,  
Acting Deputy Minister Inland Revenue.

SIR,—I beg to hand you a report upon 280 samples of Ground Black Pepper, purchased in September and October last, in fourteen of the Food Inspection Districts of Canada.

It has generally been accepted that mineral matter (ash) should not exceed 7 per cent, in black pepper.

I pointed out, in Bulletin No. 203, of 1910 which contains a report of our last general inspection of pepper, that this standard has no legal recognition, although there can be no doubt of its justifiability, in the light of very large experience with commercial pepper. Samples herein reported as containing but slight excess of Ash, and not otherwise fraudulent, I have adjudged as doubtful.

Upon this basis the following general summary of the collection is made:—

District.	Sold as Com- pound.	Genuine.	Adulter- ated.	Doubtful	Total.
Nova Scotia.....		19	0	1	20
Prince Edward Island.....		17	0	3	20
New Brunswick.....		19	1	0	20
Quebec.....		9	10	1	20
St. Hyacinthe.....	1	9	10	0	20
Montreal.....		12	8	0	20
Ottawa.....		13	7	0	20
Kingston.....		17	1	2	20
Toronto.....		17	3	0	20
Windsor.....		16	2	2	20
Manitoba.....		18	2	0	20
Nelson.....		18	1	1	20
Vancouver.....		20	0	0	20
Victoria.....		19	0	1	20
	1	223	45	11	280



## SESSIONAL PAPER No. 14

It will be noted that expressed in percentages, the showing is as below:—

Genuine...	.80 per cent.
Adulterated.	.17 "
Doubtful.....	. 4 "

A summary of the results of inspection of pepper from 1876 to 1910 appears in Bulletin No. 203, and the average adulteration is there shown to be 40 per cent, for the period.

Of black peppers examined in 1910, 18 per cent were found to be adulterated. The present report shows very little improvement, and indicates that more frequent examination of this article is necessary; and that ascertained frauds must be penalized, as the Act provides.

The Districts of Quebec, St. Hyacinthe, Montreal and Ottawa are those in which the greatest amount of adulteration is found.

I beg to recommend publication of this report as Bulletin No. 248.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,  
*Chief Analyst.*



Date of Collec- tion.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NOVA SCOTIA—								
1912.								
Sept. 11	Ground B. Pepper	46801	Wentzells Ltd., Halifax, N.S.	$\frac{3}{4}$ lb.	18	J. P. Mott & Co.	Mfrs. Halifax, N.S.	
" 13	"	46802	Jno. P. Mott & Co., Halifax, N.S.	$\frac{3}{4}$ "	Nil	Vendors.		
" 13	"	46803	Nat. Drug & Chem Co., Halifax, N.S.	$\frac{3}{4}$ "	18	"		
" 16	"	46804	Morrison & Wil- liams, Halifax N.S.	$\frac{3}{4}$ "	15	S. H. Ewing, Montreal.	J. F. Crowe & Co., Halifax, N.S.	
" 17	"	46805	Bauld Bros., Ltd Halifax, N.S.	$\frac{3}{4}$ "	18	Unknown. Said to be John P. Mott & Co.		
" 17	"	46806	Jas. Scott & Co., Halifax, N.S.	$\frac{3}{4}$ "	30	W. H. Schwartz & Sons, Hali- fax, N.S.	Mfrs.	
" 18	"	46807	Corkum & Rit- cey, Halifax, N.S.	$\frac{3}{4}$ "	18	Gorman Eckert Co., London, Ont.	Mfrs.	
" 18	"	46808	A. J. Baker & Co Halifax, N.S.	$\frac{3}{4}$ "	30	Gorman Eckert Co., London, Ont.	Mfrs.	
" 19	"	46809	W. H. Schwartz & Sons, Hali- fax, N.S.	$\frac{3}{4}$ "	15	Vendors.		
" 19	"	46810	E. W. Crease & Son, Halifax, N.S.	$\frac{3}{4}$ "	19	Jno. P. Mott & Co., Halifax, N.S.	Mfrs.	
" 19	"	46811	Dillon Bros., Halifax, N.S.	$\frac{3}{4}$ "	22	Todhunter & Mitchell, Tor- onto.	Mfrs.	
" 24	"	46812	L. C. Gardner & Co, Yarmouth N.S.	$\frac{3}{4}$ "	20	Dearborn & Co. St. John, N.B.		
" 27	"	46813	Eisener & Cole- man, Dart- mouth, N.S.	$\frac{3}{4}$ "	20	C. H. Cochrane Co., Ottawa.	Mfrs.	
Oct. 3	"	46814	Colchester Co'y Farmers' Co- op. Associat'n, Truro, N.S.	$\frac{3}{4}$ "	27	W. H. Schwartz & Sons, Hali- fax, N.S.	Mfrs.	
" 3	"	46815	Angus & Pollock Truro, N.S.	$\frac{3}{4}$ "	22	Unknown.		
" 3	"	46816	A. F. Ross & Co Truro, N.S.	$\frac{3}{4}$ "	24	Dearborn & Co., St. John, N.S.	Mfrs.	
" 5	"	46817	J. B. Young, Lunenburg, N. S.	$\frac{3}{4}$ "	25	Jno. P. Mott & Co., Halifax, N.S.	"	
" 5	"	46818	J. W. Smeltzer, Lunenburg, N S.	$\frac{3}{4}$ "	19	W. H. Schwartz & Sons, Hali- fax, N.S.	"	
" 5	"	46819	B. G. Oxner, Lunenburg, N S.	$\frac{3}{4}$ "	15	Barbour & Co., St. John, N.S.	"	
" 5	"	46820	J. S. Berringer, Lunenburg, N S.	$\frac{3}{4}$ "	20	W. A. Freeman Co., Hamilton Ont.		



SESSIONAL PAPER No. 14

## GROUND BLACK PEPPER.

RESULTS OF ANALYSIS.		No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		

R. J. WAUGH, INSPECTOR.

p. c.

6.68	Pepper	46801	Genuine.
4.60	"	46802	"
7.66	"	46803	"
8.71	"	46804	Heavily adulterated with starch.
5.12	"	46805	Genuine.
5.50	"	46806	"
4.46	"	46807	"
4.86	"	46808	"
5.20	"	46809	"
1.51	"	46810	"
4.46	"	46811	"
5.41	"	46812	"
5.68	"	46813	"
4.60	"	46814	"
5.32	"	46815	"
5.56	"	46816	"
4.60	"	46817	"
5.66	"	46818	"
5.78	"	46819	"
4.96	"	46820	"



Date of Collec- tion.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF PRINCE EDWARD ISLAND—

1912								
Sept.	6	Ground B. Pepper	46227	Grant & Co. Ch. Town, P.E.I.	$\frac{3}{4}$ lb	21	Dearbon & Co.,... St. John, N.B.	
"	6	"	46228	J. G. Jamieson, Ch.Town. "	$\frac{3}{4}$ "	30	Lymans, Ltd.,... Montreal.	
"	7	"	46229	A. Gates & Co., Ch.Town. "	$\frac{3}{4}$ "	21	Chapeau Fils,... Montreal.	
"	9	"	46230	Coffin & Co., Ch.Town. "	$\frac{3}{4}$ "	21	Barbour & Co.,... St. John, N.B.	
"	10	"	46231	The 2 Mac's, Ch.Town. "	$\frac{3}{4}$ "	30	Lymans Ltd.,... Montreal.	
"	10	"	46232	McKinnon Drug Co.Ch.Town "	$\frac{3}{4}$ "	24	Unknown.	
"	12	"	46233	A. J. Warren, Ch.Town. "	$\frac{3}{4}$ "	24		J.A.Farquhar- son & Co. Ch. Town, P.E.I.
"	12	"	46234	J. G. Passmore, Ch.Town. "	$\frac{3}{4}$ "	24	Crown Spice. Mills.	
"	14	"	46235	Reddin Bros., Ch.Town. "	$\frac{3}{4}$ "	30	Lymans Ltd., Montreal.	
"	17	"	46236	George Forbes, Vernon River Bridge, P.E.I.	$\frac{3}{4}$ "	18	Unknown.....	
"	17	"	46237	George Carver, Pownall, P.E.I.	$\frac{3}{4}$ "	24	Unknown.	
"	18	"	46238	H. Currie, Peakes Sta., Ch.Town. "	$\frac{3}{4}$ "	21	Crown Spice Mills, Ch. Town, P.E.I.	
"	19	"	46239	M. Duffy, Ch. Town, P.E.I.	$\frac{3}{4}$ "	30	White Swan, S. & C. Ltd., Toronto.	
"	21	"	46240	Apothecaries Hall, Co., Ch.Town. "	$\frac{3}{4}$ "	24	Unknown.....	
"	21	"	46241	Sanderson & Co. Ch.Town. "	$\frac{3}{4}$ "	21	Schwartz, Hali- fax, N.S.	
Oct.	1	"	46242	Gourlies Ltd., Summerside, P.E.I.	$\frac{3}{4}$ "	30	Lymans Ltd., Montreal.	
"	1	"	46243	Sinclair & Ste- wart, Ch.town "	$\frac{3}{4}$ "	30	Schwartz &.. Sons, Halifax, N.S.	
"	1	"	46244	Brace McKay & Co., Ch.town."	$\frac{3}{4}$ "	24	Pure Gold Co.,... Toronto.	
"	3	"	46245	A. Currie & Co., Souris, P.E.I.	$\frac{3}{4}$ "	24	Crown Spice.. Mills, Ch. Town, P.E.I.	
"	3	"	46246	Mathew & Mc- Lean, Ch.town "	$\frac{3}{4}$ "	24	Schwartz & Sons Halifax, N.S.	

DISTRICT OF NEW BRUNSWICK—

Sept.	4	Ground B. Pepper	45700	Dearborn & Co. St. John, N.B.	$\frac{3}{4}$ lb...	15	Vendors..	
"	4	"	50401	Puddington, Wetmore, & Morrison. St. John, N.B.	$\frac{3}{4}$ " .	18	"	



SESSIONAL PAPER No. 14  
GROUND BLACK PEPPER.

RESULTS OF ANALYSIS.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Total Ash.	Microscopic Examination.		

WM. A. WEEKS, INSPECTOR.

p. c.			
5.12	Pepper tissues only.....	46227	Genuine.
5.00	" .....	46228	"
5.40	" .....	46229	"
7.58	" .....	46230	"
5.72	" .....	46231	"
5.59	" .....	46232	"
8.76	" .....	46233	Excess mineral matter. Doubtful.
5.45	" .....	46234	Genuine.
4.94	" .....	46235	"
5.94	" .....	46236	"
8.04	" .....	46237	Excess Mineral matter. Doubtful.
6.55	" .....	46238	Genuine.
8.45	" .....	46239	Excess mineral matter. Doubtful.
4.36	" .....	46240	Genuine.
5.00	" .....	46241	"
5.08	" .....	46242	"
4.80	" .....	46243	"
5.34	" .....	46244	"
5.54	" .....	46245	"
5.84	" .....	46246	"

J. C. FERGUSON, INSPECTOR.

5.76	Pepper tissues only.....	50400	Genuine.
7.90	" .....	50401	"



Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NEW BRUNSWICK

1912.								
Sept.	4	Ground B. Pepper	50402	G. E. Barbour Co., Ltd., St. John, N.B.	$\frac{3}{4}$ lb.	23	Vendors.	
"	5	"	50403	H.W.Cole, Ltd., St. John, N.B.	$\frac{3}{4}$ "	21	"	
"	5	"	50404	McCready & Son Ltd., St. John N.B.	$\frac{3}{4}$ "	15	"	
"	9	"	50405	2 Barkers, Ltd. St. John, N.B.	$\frac{3}{4}$ "	15	"	
"	9	"	50406	Baird & Peters, St. John, N.B.	$\frac{3}{4}$ "	13	"	
"	10	"	50407	W. A. Simonds, St. John, N.B.	$\frac{3}{4}$ "	23	Todhunter, Mit- chell & Co., Toronto, Ont.	
"	11	"	50408	E. W. Rowley, St. John, N.B.	$\frac{3}{4}$ "	21	L. N. Thorne, St. John, N.B.	
"	16	"	50409	M. E. Grass, St. John, N.B.	$\frac{3}{4}$ "	30	White Swan Spi- ces Co., Tor- onto.	
"	25	"	50410	J. & J. S. Titus, St. Martins, N.B.	$\frac{3}{4}$ "	23		Jones & Scho- field, St. John, N.B.
Oct.	3	"	50411	M. C. Jewett, Fredericton,	$\frac{3}{4}$ "	20		A. F. Randolph, & Son., Fred- erickton, N.B.
"	4	"	50412	Yerxa Grocery Co., Wood- stock, N.B.	$\frac{3}{4}$ "	30	White Swan spi- ces & Cerals, Toronto, Ont.	
"	8	"	50413	J. L. White, Grand Falls, N.B.	$\frac{3}{4}$ "	30	Unknown	Unknown.
"	15	"	50414	Sussex Mercan- tile Co., Ltd., Sussex, N.B.	$\frac{3}{4}$ "	21		H.W.Cole, Ltd., 'Thistle' brand, St. John, N.B.
"	16	"	50415	Cassidy & Belli- veau, Monc- ton, N.B.	$\frac{3}{4}$ "	24		Reed Co., Ltd., Moncton, N.B.
"	17	"	50416	Baird & Peters, Newcastle, N.B.	$\frac{3}{4}$ "	20	Vendors.	
"	17	"	50417	James Mailer, Newcastle, N.B.	$\frac{3}{4}$ "	30		Baird & Peters, Newcastle, N.B.
"	18	"	50418	J. B. Snowball Co., Ltd., Chatham, N.B.	$\frac{3}{4}$ "	30	Todhunter, Mit- chell & Co., Tor- onto, Ont.	
"	19	"	50419	Frank P. Gatain, Bathurst, N.B.	$\frac{3}{4}$ "	24		H.W., Cole, Ltd. 'Thistle' brand, St. John, N.B.

DISTRICT OF QUEBEC

Sept.	3	Ground B. Pepper	37472	Eudore Delisle, 2 Ave. Tasch- ereau, Quebec	$\frac{3}{4}$ lb.	18	Herron and Le- blanc.	Mrs.
"	5	"	37473	N. Cantin, 133 Rue du Pont, Quebec.	$\frac{3}{4}$ "	18	Unknown	Unknown.



SESSIONAL PAPER No. 14

## GROUND BLACK PEPPER

Microscopical Examination.		Sample.	Analyst.
Total Area.			
1.00			
7.00	Pepper tissues.		
6.00			
5.00			
4.00		50105	
3.00			
2.00			
1.00		50108	
0.50		50109	
0.25		50110	
0.12		50111	
0.06		50112	
0.03		50113	
0.01		50114	
7.40	" with a little foreign stone cells.	50115	Adulterated.
7.00		50116	Genuine.
3.84		50117	
3.70		50118	
3.70		50119	

—F. X. W. E. BELAND, INSPECTOR.

4.00	Pepper tissues. maize and wheat starch...	50120	Adulterated.
3.70	Pepper tissues.	50121	Genuine.



Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer	Furnisher.	
DISTRICT OF QUEBEC								
1912								
Sept.	6	Ground B. Pepper	37474 G. Girgis, 268 Rue du Roie, Quebec.	1 lb	18	Unknown	W. Brunet et Cie	
"	7	"	37475 Cantin & Frere, 271 Rue St. Joseph, Que.	"	20	"	Langlois & Para- dis.	
"	10	"	37476 C. S. Riverin, 50 Rue de la Couronne, Quebec.	"	18	"	Turcot & Frere.	
"	11	"	37477 Myrand & Pou- liot, 70 Rue de la Couronne, Quebec.	"	18	"	Unknown.....	
"	12	"	37478 Arthur Drolet, 714 Rue St. Valier, Queb'c	"	21	Herron & Le- blanc.	Mfrs.....	
"	13	"	37479 Arthur Rinfred, 414 Rue St. Joseph, Que.	"	18	Unknown.....	Unknown ..	
"	16	"	37480 Hamel & Bed- ard, 728 Rue St. Valier, Quebec.	"	20	Lemesarier and Son.	Whitead & Tur- ner.	
"	17	"	37481 V. Lacasse & Cie, 7 Rue St. Clair, Quebec.	"	27	J. Lemesarie & Son.	" "	
"	17	"	37482 J. E. Paquet, 8 Rue Suther- land, Quebec.	"	18	Unknown...	Unknown.....	
"	17	"	37483 J. Rochette, 7 Rue Deligny, Quebec.	"	24	J. Lemesarier & Son.	J. B. Reneaud..	
"	18	"	37484 J. S. Gauvin, 29 Cote St. Ge- nieve, Quebec.	$\frac{3}{4}$ "	20	Unknown...	Gagnon & Ga- rent.	
"	18	"	37485 Alfred Boily, 38 Cote St. Ge- nieve, Quebec.	"	18	.....	.....	
"	18	"	37486 M. Boyce & Son, 921 Cote St. Genieve, Que.	"	18	Herron & Le- blanc.	Mfrs...	
"	18	"	37487 J. A. Tramblay, 139 Rue Riche- lieu, Quebec.	$\frac{3}{4}$ "	27	Herron and Le- blanc.	J. B. Reneaud..	
"	19	"	37488 George Trottier 180 $\frac{1}{2}$ Rue St. Oliver, Quebec	$\frac{3}{4}$ "	30	Mercadys & Son	Unknown.....	
"	19	"	37489 Emile Brous- seau, 17 Rue Sutherland, Quebec.	$\frac{3}{4}$ "	23	Unknown.....	.....	
"	19	"	37490 R. Cantin, 326 Rue St. Oliver Quebec.	$\frac{3}{4}$ "	18	Canadian Spice Mills.	Mfrs.....	
"	19	"	37491 Jos. Boiteau, 27 Rue Suther- land, Quebec.	"	18	Unknown.....	Langlois & Para- dis.	



SESSIONAL PAPER No. 14

## GROUND BLACK PEPPER.

Examination by Analysts		No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Quantity	Material		
Ash.			
p. c.			
1.80	Pepper tissues and maize starch.....	37474	Adulterated.
6.60		37475	
6.74	Pepper tissues.....	37476	
1.90	Pepper tissues and foreign stone cells in ex-	37477	Adulterated.
7.74	Pepper tissues and foreign stone cells in ex-	37478	
14.01		37479	
5.70	Pepper tissues.....	37480	Genuine.
5.40		37481	
7.50		37482	
5.16	Pepper tissues and foreign stone cells in ex-	37483	
10.83	Pepper tissues, foreign tissues, starch and dirt.	37484	
9.02	Pepper tissues and foreign stone cells in ex-	37485	
1.00	Pepper tissues, wheat and maize starch	37486	
4.40	Pepper tissues only.....	37487	Genuine.
6.16		37488	
6.22	Pepper tissues, wheat and maize starch...	37489	Adulterated.
4.92	Pepper tissues.....	37490	Genuine.
5.00		37491	



4 GEORGE V., A. 1914

BULLETIN No. 248—

Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF ST. HYACINTHE—								
1912								
Sept. 16	Ground B. Pepper	1433	J.B.A. Beauche- min, St. G. de Grantham.	1 lb...	24		L. Chaput fils & Cie., Montreal	
" 16	"	1434	O. Parenteau, St. Pie de Guire.	$\frac{3}{4}$ "	15			
" 17	"	1435	Cartier & Cie., Abenakis Springs.	"	17		Hudon, Hebert & Cie., Mont- real.	
" 17	"	1436	L. Parenteau, Yamaska Est.	$\frac{3}{4}$ "	15	Unknown.....	Unknown.....	
" 19	"	1437	H. Marchessault & fils, St. Ours	"	18		Laporte, Martin Montreal.	
" 20	"	1438	Mde. J. Beaure- gard, St. Aime	"	15	S. H. Ewing & Sons, Montreal.		
" 20	"	1439	P. P. Lanoie, St. Aime.	$\frac{3}{4}$ "	20		L. Chaput fils & Cie., Montreal	
" 24	"	1440	A. E. D'Artois & fils, Farnham.	"	15		J. E. Labelle & Cie., Montreal	
" 24	"	1441	A. Belle, St. Jean.	"	15	Unknown.....	Unknown.....	
" 25	"	1442	Best Bros., Bed- ford.	$\frac{3}{4}$ "	27	S. M. Ewing & Sons, Mont- real.		
" 26	"	1443	W. A. O'Dell, Stanbridge Est.	"	19	Unknown.....	Unknown.....	
" 26	"	1444	Copsey & Buch- us, Frelisburg.	"	19	White Swan S. & Co., Toronto		
" 26	"	1445	Buzzle Bros., Cowasville.	"	23	Pure Gold Mfg. Co., Toronto.		
" 27	"	1446	O. L. Bibeau, Philipsburg.	"	18		Hudon, Hebert et Cie., Mont- real.	
Oct. 1	"	1447	W. B. Murray, Sherbrooke Est.	"	20	Pure Gold Mfg. Co., Toronto.		
" 3	"	1448	G. Rolland, jr., Magog.	"	23		Laporte, Martin, Montreal.	
" 8	"	1449	J. A. Fontaine, Valcourt Ely.	"	15		L. Chaput fils & Cie., Montreal	Sold as Com-
" 8	"	1450	J. H. Lussier, Racine Ely.	$\frac{3}{4}$ "	19	Unknown.....	S. H. Ewing & Sons, Montreal	pound.
" 14	"	1451	Adolph Gladue, St. Hyacinthe	"	15		E. Lafrance, St. Hyacinthe.	
" 14	"	1452	J. Bonneau, St. Hyacinthe.	$\frac{3}{4}$ "	21		E. Lafrance, St. Hyacinthe.	

## DISTRICT OF MONTREAL—

Sept. 10	Ground B. Pepper.	50981	A. Lavigne, P.Q.	1 lb.	15	Pure Gold Co., Ltd.		
" 10	"	50982	A. Lavigne, P.Q.	"	13		L. Chaput fils & Co., Ltd., Montreal.	



SESSIONAL PAPER No. 14  
GROUND BLACK PEPPER.

RESULTS OF ANALYSIS.		No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		

## J. C. ROULEAU, INSPECTOR.

p. c.			
5.84	Pepper tissues only.....	1434	Genuine.
5.50	Pepper tissues and maize starch.....	1434	Adulterated.
6.88		1435	"
6.43		1436	"
5.80	Pepper tissues only.....	1437	Genuine.
7.44	Pepper tissues and foreign stone cells in excess.	1438	Adulterated.
5.70	Pepper tissues only.....	1439	Genuine.
6.88		1440	"
3.44	Pepper tissues, foreign stone cells with a little wheat starch.	1441	Adulterated.
10.44	Pepper tissues, foreign stone cells and wheat starch.	1442	"
4.42	Pepper tissues only.....	1443	Genuine.
4.02		1444	"
4.83		1445	"
6.16	Pepper tissues and foreign stone cells.	1446	Adulterated.
5.80	Pepper tissues only.....	1447	Genuine.
5.25		1448	"
6.36	Pepper tissues, foreign tissues, and foreign stone cells in excess.	1449	Compound.
3.36	Pepper tissues and foreign stone cells in excess.	1450	Adulterated.
14.68	Pepper tissues, wheat starch and dirt.	1451	"
12.68	Pepper tissues, wheat and maize starch and dirt.	1452	"

## J. J. COSTIGAN, INSPECTOR.

4.82	Pepper tissues only...	50981	Genuine.
5.20	" " "	50982	"



Date of Collec- tion.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF MONTREAL								
1912.								
Oct.	1	Ground B.Pepper	50983 A. W. Hugman, 1 Ltd., 28 St. Paul st., Mon- treal.	1 lb	18	Vendor.		
"	1	"	50984 A. Kouri, 31 1 Bonsecours st. Montreal.	"	15			
"	3	"	50985 J. E. Groulx 1051 1 Lahrier ave.W Outremont E.	"	30	S. H. Ewing & Son.		
"	3	"	50986 Limoges et 1 Freres, 2,000 Hutchison st., Outremont E.	"	20			
"	3	"	50987 A. Gadbois, 1 Hutchison and Viateur sts , Outremont E.	"	30	J. V. Boudrias, Montreal.		
"	3	"	50988 The Park Pro- 1 vision Co., 209 St. Viateur st. Montreal.	"	30	S. H. Ewing & Sons.		
"	3	"	50989 E. Pelland, 180 1 Fairmont ave. W., Montreal.	"	30			
"	4	"	50990 Frank D. Hall, 3 4 St. Agathe des Monts.	"	28			
"	4	"	50991 G. Coté, St. 3 4 Agathe des Monts.	"	30		L. Chaput fils & Cie., Ltd.	
"	7	"	50992 James Graham, 3 4 4451 St. Cath. st. Westmount	"	30			
"	7	"	50993 Thos. L. Muir, 3 4 4500 St. Cath. st. Westmount	"	30			
"	8	"	50994 R. Bernard, 91 3 4 Lagauchitiere st. E. Mont- real.	"	30	J. V. Boudrias, Ltd., Mont- real.		
"	8	"	50995 S. Cohen, 90 3 4 Dorchester st. E., Montreal.	"	25			
"	8	"	50996 S. Dionne, 140 3 4 Dorchester st. Montreal.	"	30			
"	10	"	50997 Dechesnes & Pi- 3 4 card, Joliette, P.Q.	"	15			"Imperial" brand
"	10	"	50998 E. Dufour, Joli- 3 4 ette, P. Q.	"	15			
"	10	"	50999 J. A. Malo, Joli- 3 4 ette, P.Q.	"	15			
"	11	"	51000 Jos. Bonenfont, 3 4 428 Church av Verdun.	"	27			



## SESSIONAL PAPER No. 14

## GROUND BLACK PEPPER.

## RESULTS OF ANALYSIS.

		No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		
<i>Continued.</i>			
p. c.			
5.66	Pepper tissues only.....	50983	Genuine.
2.54	Pepper tissues and wheat starch.....	50984	Adulterated.
4.63	Pepper tissues.....	50985	Genuine.
6.29	Pepper tissues and maize starch.....	50986	Adulterated.
5.84	Pepper tissues.....	50987	Genuine.
4.64	" ".....	50988	"
3.42	" ".....	50989	"
8.14	Pepper tissues and maize starch.....	50990	Adulterated.
6.02	Pepper tissues only.....	50991	Genuine.
4.00	" ".....	50992	"
7.40	Pepper tissues; wheat starch with a little maize starch.	50993	Adulterated.
5.58	Pepper tissues only.....	50994	Genuine.
18.20	Pepper tissues and dirt.....	50995	Adulterated.
5.60	Pepper tissues only.....	50996	Genuine.
5.58	" ".....	50997	"
7.46	Pepper tissues and maize starch.....	50998	Adulterated.
14.30	Pepper tissues, maize starch and dirt...	50999	"
5.54	Pepper tissues, foreign tissues and maize starch.	51000	"



Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF OTTAWA—

1912.								
Aug. 30	Ground B. Pepper	50232	Cameron & Downing, Vankleek Hill	$\frac{3}{4}$ lb..	19	.....	.....	Ground for and fur- nished by Mat- hewson's Sons. Herron LeBlanc Ltd., Grinders.
Sept. 4	"	50233	S. Berger, 510 Bank St., Ot- tawa.	$\frac{3}{4}$ "	30	Unknown.	.....	H. N. Bate & Sons, Ottawa.
" 4	"	50234	Geo. Agar, Ot- tawa.	$\frac{3}{4}$ "	30	"	.....	H. N. Bate & Sons, Ottawa.
" 4	"	50235	M. A. McCagg, Ottawa, Ont.	$\frac{3}{4}$ "	30	"	.....	F. J. Castle Co., Ottawa.
" 4	"	50236	Alex. Phillips, Ottawa, Ont.	$\frac{3}{4}$ "	30	"	.....	H. N. Bate & Sons, Ottawa.
" 5	"	50237	J. B. Bedard, Hull, P.Q.	$\frac{3}{4}$ "	30	"	.....	F. J. Castle Co., Ottawa.
" 5	"	50238	J. E. Ryan & Co., Hull, P.Q.	$\frac{3}{4}$ "	30	"	.....	Unknown.
" 5	"	50239	Jules Grattan, Hull, P.Q.	$\frac{3}{4}$ "	30	.....	.....	.....
" 6	"	50240	Jas. McDougall, Brockville.	$\frac{3}{4}$ "	30	J. M. Lowes, Mfrs. Ltd., Toronto.	.....	.....
" 6	"	50241	F. H. Clifford, Brockville.	$\frac{3}{4}$ "	30	Lister Pure Food Co., Toronto.	.....	.....
" 6	"	50242	J. Culbert, Brockville.	$\frac{3}{4}$ "	30	Unknown.....	Unknown.	.....
" 6	"	50243	A. E. Shaver, Brockville.	$\frac{3}{4}$ "	30	Pure Gold Mfg. Mfrs. Co., Toronto.	.....	.....
" 7	"	50244	John Hughes, Prescott.	$\frac{3}{4}$ "	30	J. M. Lowes Co., Toronto.	"	.....
" 7	"	50245	R. A. Scott & Co., Prescott.	$\frac{3}{4}$ "	30	C. H. Cochrane, & Co., Ottawa	"	.....
" 11	"	50246	William Miller, Ottawa.	$\frac{3}{4}$ "	30	Unknown.....	Unknown.	.....
" 12	"	50247	Geo. H. Hall & Co., Ottawa.	$\frac{3}{4}$ "	30	C. H. Cochrane, Mfrs. & Co., Ottawa	.....	.....
" 16	"	50248	Thos. R. Davies Ottawa.	$\frac{3}{4}$ "	30	Unknown.....	H. N. Bate & Sons, Ottawa.	.....
" 18	"	50249	W. Miskelly, Merrickville.	$\frac{3}{4}$ "	20	Gorman Eckert, Mfrs. Montreal.	.....	.....
" 18	"	50250	Wm. Cusick, Merrickville.	$\frac{3}{4}$ "	30	Unknown.	Unknown.	.....
" 18	"	50251	John Kerr, Merrickville.	$\frac{3}{4}$ "	20	"	Gilmour & Co., Brockville.	.....

DISTRICT OF KINGSTON—

Sept. 3	Ground B. Pepper.	50711	J. Gilbert, King- ston.	$\frac{3}{4}$ lb.	19	.....	J. M. Lowes, Toronto.	.....
" 3	"	50712	J. E. Purdy, Kingston.	$\frac{3}{4}$ "	19	.....	Hamilton Spice & Coffee Co., Hamilton.	.....
" 3	"	50713	H. T. Free, Kingston.	$\frac{3}{4}$ "	13	.....	J. M. Lowes, Toronto.	.....



SESSIONAL PAPER No. 14  
GROUND BLACK PEPPER.

RESULTS OF ANALYSIS.		No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		
p. c.			
12	Pepper tissues and foreign stone cells in excess.	50232	Adulterated.
12	Pepper tissues and foreign stone cells in excess.	50233	
6.64	Pepper tissues only.....	50234	Genuine.
10.82	Pepper tissues and maize starch.....	50235	Adulterated.
9.52		50236	"
10.00	Pepper tissues and foreign stone cells in excess.	50237	"
4.36	Pepper tissues only.....	50238	Genuine.
3.52	Pepper tissues and wheat starch.....	50239	Adulterated.
5.62	Pepper tissues only.....	50240	Genuine.
4.34		50241	
4.40		50242	
1.10	(white pepper).	50243	
4.60		50244	
5.04		50245	
4.89		50246	
4.74	" " .....	50247	"
4.24	Pepper tissues and foreign stone cells in excess.	50248	Adulterated.
5.00	Pepper tissues only.....	50249	Genuine.
5.64		50250	
4.11		50251	

## JAS. HOGAN, INSPECTOR.

7.50	Pepper tissues only.....	50711	Genuine.
5.64	" "	50712	"
4.68	" "	50713	"



Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF KINGSTON

1912.								
Sept.	3	Ground B Pepper.	50714 J. A. Percy, Kingston.	$\frac{3}{4}$	lb	20	Geo. Robertson & Son, King- ston.	
"	3	"	50715 W. J. Arnill, Kingston.	$\frac{3}{4}$	"	19	Robertson Ni- coll Co., King- ston.	
"	4	"	50716 H. A. Stover, Kingston.	$\frac{3}{4}$	"	23	A. Maclean, Kingston.	
"	4	"	50717 W. J. Lee, Kingston.	$\frac{3}{4}$	"	23	W. G. Craig Co. Kingston.	
"	4	"	50718 P. A. Happner, Kingston.	$\frac{3}{4}$	"	23	J. M. Lowes, Toronto.	
"	4	"	50719 J. Cullen, Kingston.	$\frac{3}{4}$	"	23	A. Maclean, Kingston.	
"	9	"	50720 R. Elvins, Belleville.	$\frac{3}{4}$	"	18	Dalton Bros. Toronto.	
"	9	"	50721 J. B. Harker, Belleville.	$\frac{3}{4}$	"	22		
"	9	"	50722 J. Panter & Son, Belleville.	$\frac{3}{4}$	"	22	White Swan Co., Toronto.	
"	9	"	50723 George Boyle, Belleville.	$\frac{3}{4}$	"	18	F. F. Dalley, Co., Hamilton	
"	9	"	50724 J. H. P. Young, Belleville.	$\frac{3}{4}$	"	22	Pure Gold Co., Toronto.	
"	10	"	50725 T. McIntosh, Cobourg.	$\frac{3}{4}$	"	18	Todhunter & Mitchell, Tor- onto.	
"	10	"	50726 W. P. Platt, Cobourg.	$\frac{3}{4}$	"	23	Todhunter & Mitchell, Tor- onto.	
"	10	"	50727 E. Guillet, Cobourg.	$\frac{3}{4}$	"	23	W. H. Ewing Co., Montreal.	
"	10	"	50728 F. Rosevear Port Hope.	$\frac{3}{4}$	"	19	F. F. Dalley Co. Hamilton.	
"	10	"	50729 F. H. Brown, Port Hope.	$\frac{3}{4}$	"	23	Unknown.....	
"	11	"	50730 W. J. Roulty, Peterboro.	$\frac{3}{4}$	"	30	White Swan Co., Toronto.	

DISTRICT OF TORONTO—

Sept.	13	Ground B. Pepper	51421 J. C. Williams, 744 Gerrard St. East, To- ronto.	$\frac{3}{4}$	lb.	30	Unknown.	
"	13	"	51422 F. Colello, 1062 Gerrard st. East, Toronto	$\frac{3}{4}$	"	25	"	
"	13	"	51423 Prowse's Cash Grocery, 61 Bellevue Ave., Toronto.	$\frac{3}{4}$	"	30	Dalton Bros. Toronto.	
"	31	"	51424 Jas. Faragher, Dennison & Carr sts., To- ronto.	$\frac{3}{4}$	"	20	Todhunter, Mitchell & Co., Toronto.	



SESSIONAL PAPER No. 14  
GROUND BLACK PEPPER.

## RESULTS OF ANALYSIS.

		No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		
p. c.			
5.62	Pepper tissues.	50714	Genuine.
4.68	"	50715	"
5.96	"	50716	"
6.86	"	50717	"
5.54	"	50718	"
5.28	"	50719	"
8.72	"	50720	Excess mineral matter. Doubtful.
9.14	Pepper tissues and dirt.	50721	Adulterated.
7.66	Pepper tissues and dirt.	50722	Excess mineral matter. Doubtful.
4.76	"	50723	Genuine.
4.32	"	50724	"
5.02	"	50725	"
4.84	"	50726	"
3.70	"	50727	"
5.42	"	50728	"
4.82	"	50729	"
4.86	"	50730	"

H. J. DAGER, INSPECTOR.

5.70	Pepper tissues.	51421	Genuine.
5.74	"	51422	"
4.34	Pepper tissues and foreign stone cells in excess.	51423	Adulterated.
5.50	Pepper tissues.	51424	Genuine.



Date of Collec- tion.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF TORONTO

1912.								
Sept. 16	Ground B. Pepper.	51425	W. J. Fletcher, 74 Bathurst st Toronto.	$\frac{3}{4}$ lb	20	.....	Unknown. ....	..
" 16	"	51426	W. Bottomley 834 King st. West, Toronto	$\frac{3}{4}$ "	23	.....	R. B. Hayhoe & Co., Toron- to.	..
" 16	"	51427	R. Hawkhis- stone, 858 Dovercourt Road, Tor- onto.	$\frac{3}{4}$ "	19	.....	.... Todhunter, Mitchell & & Co., To- onto.	..
" 17	"	51428	H. F. Hall, 48 Geary Ave., Toronto.	$\frac{3}{4}$ "	23	.....	Unknown. ....	..
" 17	"	51429	J. D. Tripp, 1504 Queen St. West, Toronto	$\frac{3}{4}$ "	30	.....	Todhunter, Mitchell & Co., Toronto.	..
" 17	"	51430	J. D. Ward, 1284 Queen St. West Toronto.	$\frac{3}{4}$ "	30	.....	Pure Gold Mfg. Co., Ltd., Toronto.	..
" 20	"	51431	W. A. M. Cody, Newmarket.	$\frac{3}{4}$ "	23	.....	Unknown.....	..
" 23	"	51432	McDonald Bros. 1064 Yonge St. Toronto.	$\frac{3}{4}$ "	30	.....	Pure Gold Mfg. Co., Ltd., Toronto.	..
Oct. 1	"	51433	Smithson & Craven, Bur- lington.	$\frac{3}{4}$ "	25	.....	Unknown.....	..
" 1	"	51434	A. Broad, Dun- das.	$\frac{3}{4}$ "	22	.....	" .....	..
" 2	"	51435	A. E. Virtue, 33 East Ave., North Hamil- ton.	$\frac{3}{4}$ "	30	.....	" .....	..
" 2	"	51436	J. L. Benson, King William St., Hamilton	$\frac{3}{4}$ "	23	.....	Imperial Cocoa & Spice Co., Ltd., Hamil- ton, Ont.	..
" 2	"	51437	Jacob Vanstor, 797 Barton St. East, Hamil- ton.	$\frac{3}{4}$ "	30	.....	Unknown.....	..
" 2	"	51438	H. J. Vaughen, King & Lockie Sts., Hamil- ton.	$\frac{3}{4}$ "	25	.....	F. F. Dalley & Co., Ltd., Hamilton.	..
" 3	"	51439	C. Oliver, 61 York St., Hamilton.	$\frac{3}{4}$ "	27	.....	Young & Wind- field, Hamil- ton.	..
" 3	"	51440	M. Van Every, Bay and Can- non Sts., Ham- ilton.	$\frac{3}{4}$ "	23	.....	Young & Wind- field, Hamil- ton.	..



SESSIONAL PAPER No. 14

## GROUND BLACK PEPPER.

RESULTS OF ANALYSIS.		No. of sample.	Remarks and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		

p. c.

4.80 Pepper tissues and foreign stone cells in excess.

51425

5.30

51426

5.00

51427

5.00

51428

4.90

51429

4.96

51430

4.48 Pepper tissues and foreign stone cells in excess.

51431

Adulterated.

5.08 Pepper tissues only.

51432

Genuine.

6.10

51433

5.94

51434

5.00

51435

6.28 Pepper tissues and foreign stone cells in excess.

51436

Adulterated.

4.56 Pepper tissues only.

51437

Genuine.

5.70

51438

5.70

51439

5.80

51440



Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF WINDSOR—

1912.								
Sept. 19	Ground B. Pepper.	48101	R. Baker, Lon- don East	$\frac{3}{4}$ lb.	30	.....	I. X. L. Spice & 'Sweetheart' Coffee Co., Brand. London.	
" 19	"	48103	G. H. Mennill, London, E.	$\frac{3}{4}$ "	23	.....	" "	
" 19	"	48105	Chas. Depper, London E.	$\frac{3}{4}$ "	17	.....	Gorman Eckert 'Tellicherry' Co., London. Brand.	
" 20	"	48107	S. M. Fleet, In- gersoll.	$\frac{3}{4}$ "	30	.....	F. F. Dalley, Labelled Pure Hamilton. Sing. Black Pepper.	
" 20	"	48109	P. J. Sherry, Ingersoll.	$\frac{3}{4}$ "	23	E. Adams & Co. London.	..... Labelled Pure Black Pepper.	
" 20	"	48111	M. W. Healey, Ingersoll.	$\frac{3}{4}$ "	23	.....	I. W. L. Spice & 'Sweetheart' Coffee Co., Brand. London.	
" 20	"	48114	Chas. M. Craw- ford, Ingersoll.	$\frac{3}{4}$ "	23	Imperial Cocoa & Spice Co., Ltd., Hamil- ton, Ont.	..... 'Red Feather' Brand.	
" 20	"	48115	Buchanan Bros., Ingersoll.	$\frac{3}{4}$ "	23	.....	Gorman Eckert 'Forest City', Co., London. Pure Spices.	
" 20	"	48118	Robt. Stewart, Ingersoll.	$\frac{3}{4}$ "	30	.....	F. F. Dalley Co. Labelled Dal- ley's Pure Telli- cherry Pepper.	
" 20	"	48120	McLeod & Mc- Bain, Inger- soll.	$\frac{3}{4}$ "	23	.....	Gorman Eckert, London, Ont.	
" 20	"	48121	W. I. Hogarth, Ingersoll.	$\frac{3}{4}$ "	20	.....	White Swan S. 'White Swan' & C. Co., To- Brand, Pure ronto. Ground Black Pepper.	
" 21	"	48123	C. W. Reynolds, Pottersburg.	$\frac{3}{4}$ "	30	.....	Gorman Eckert, & Co., Lon- don.	
" 5	"	48277	E. R. Newmans London.	$\frac{3}{4}$ "	30	E. Adams & Co. London.	.....	
" 5	"	48279	Thos. Shaw, London.	$\frac{3}{4}$ "	30	.....	I. X. L. Spice & Pure Select Black Coffee Co., Pepper. London.	
" 12	"	48289	White & Co., Woodstock, Ont.	$\frac{3}{4}$ "	30	.....	Gorman Eckert, 'Forest City' & Co. London. Pure Spices.	
" 12	"	48291	Wm. Pullen, Woodstock, Ont.	$\frac{3}{4}$ "	30	.....	Unknown.....	
" 12	"	48292	Lewis & Son, Woodstock, Ont.	$\frac{3}{4}$ "	23	.....	Gorman Eckert, 'Crest' Brand. Co., London.	
" 19	"	48294	W. A. Munn, St. Thomas.	$\frac{3}{4}$ "	22	.....	"	
" 19	"	48297	Ideal Co-op. Association, St. Thomas.	$\frac{3}{4}$ "	23	.....	I. X. L. Spice & 'Sweetheart' Coffee Co., Brand, Pure London. Select Spices.	
" 19	"	48300	Moylan & Moy- lan, St. Thomas.			.....	" 'Sweetheart' Brand.	



SESSIONAL PAPER No. 14

## GROUND BLACK PEPPER.

RESULTS OF ANALYSIS.		No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		

JNO. TALBOT, INSPECTOR.

p. c.			
5.22	Pepper tissues only.....	48101	Genuine.
5.22	" "	48103	"
4.10	" "	48105	"
5.08	" "	48107	"
8.64	" "	48109	Mineral matter in excess. Doubtful.
6.18	" "	48111	Genuine.
5.06	Pepper tissues and foreign tissues and dirt.	48114	Adulterated.
8.20	Pepper tissues and dirt.	48115	Excess mineral matter. Doubtful.
5.02	Pepper tissues.	48116	Genuine.
5.00	" "	48119	"
7.04	" "	48121	"
7.56	" "	48123	"
6.04	" "	48127	"
4.02	" "	48129	"
4.92	" "	48289	"
11.82	Pepper tissues, foreign tissues and dirt.	48291	Adulterated.
4.96	Pepper tissues only. ....	48292	Genuine.
5.11	" "	48294	"
5.54	" "	48297	"
6.64	" "	48300	"



Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF MANITOBA—

1912.								
Sept. 19	Ground B. Pepper.	48656	M. Shiner, Em- erson.	$\frac{3}{4}$ lb.	30			
" 19	"	48657	C. A. Whitman, Emerson.	$\frac{3}{4}$ "	20	Unknown.....	Unknown.....	
" 20	"	48658	Campbell Bros., Wilson, Winni- peg.	$\frac{3}{4}$ "	....	Vendors.....		
" 20	"	48659	The Dyson Co., Winnipeg.	$\frac{3}{4}$ "	....	"		
" 20	"	48660	The White Star Mfg. Co., Win- nipeg.	$\frac{3}{4}$ "	....	"		
" 20	"	48661	The Gold Stan- dard Mfg. Co., Winnipeg.	$\frac{3}{4}$ "	....	"		
" 23	"	48662	P. Nelson, Win- nipeg.	$\frac{3}{4}$ "	30			
" 23	"	48663	W. H. Morgan, Winnipeg.	$\frac{3}{4}$ "	30		The Codville Co Winnipeg.	
" 23	"	48664	Western Mercan- tile Co., Win- nipeg.	$\frac{3}{4}$ "	30			
" 24	"	48665	P.J.Foley & Co., Stonewall.	$\frac{3}{4}$ "	30		The Jobin Mar- rin Co., Ltd., Winnipeg.	
" 24	"	48666	G. Montgomery & Co., Stone- wall.	$\frac{3}{4}$ "	30			
" 24	"	48667	I. Genser, Stone- wall.	$\frac{3}{4}$ "	30		Mason & Hickey Winnipeg.	
" 25	"	48668	C. Finkleman, Selkirk.	$\frac{3}{4}$ "	25			
" 25	"	48669	W. Robinson & Co., Selkirk.	$\frac{3}{4}$ "	30			
" 25	"	48670	Shepard Peers Co., Selkirk.	$\frac{3}{4}$ "	30			
" 26	"	48671	I. Turkletop, Beausejours, Man.	$\frac{3}{4}$ "	20			
Oct. 1	"	48672	D. G. Macdon- ald, Portage la Prairie.	$\frac{3}{4}$ "	30		Jobin Marrin Co Winnipeg.	
" 1	"	48673	O'Rielly & Co., Portage la Prairie.	$\frac{3}{4}$ "	30			
" 2	"	48674	Smith & Burton Brandon.	$\frac{3}{4}$ "	35			
" 3	"	48675	Brebber & Til- lup, Oak Lake	$\frac{3}{4}$ "	30		Campbell Bros. & Wilson, Win- nipeg.	



SESSIONAL PAPER No. 14  
GROUND BLACK PEPPER.

RESULTS OF ANALYSIS.		No. of Samples.	Remarks and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		

## A. C. LARIVIERE, INSPECTOR.

p. c.			
4.12	Pepper tissues and foreign stone cells in excess.	48656	Adulterated.
5.26	Pepper tissues only.....	48657	Genuine.
6.00	" "	48658	"
5.28	" "	48659	"
5.24	" "	48660	"
6.84	" "	48661	"
4.84	" "	48662	"
5.26	" "	48663	"
4.66	" "	48664	"
4.12	" "	48665	"
4.38	" "	48666	"
5.14	" "	48667	"
4.76	" "	48668	"
4.82	" "	48669	"
5.94	" "	48670	"
18.46	Pepper tissues, dirt and foreign stone cells in excess.	48671	Adulterated.
4.62	Pepper tissues only.....	48672	Genuine.
5.30	" "	48673	"
4.62	" "	48674	"
5.56	" "	48675	"



Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NELSON—								
1912								
Sept. 3	Ground B. Pepper	49687	Union CashGro- cery, Nelson. B.C.	$\frac{3}{4}$ lb.	30	Empress Mfg. Co., Vancou- ver.		
" 3	"	49689	Bell TradingCo. Nelson, B.C.	$\frac{3}{4}$ "	30	Wm. Braid & Co., Vancou- ver.		
" 6	"	49701	G.B. Armstrong Merritt, B.C.	$\frac{3}{4}$ "	30	Kelly, Douglas Co., Vancou- ver.		
" 9	"	49719	L. C. Masson, Revelstoke.	$\frac{3}{4}$ "	30	Oriental Mills, Vancouver.		
" 9	"	49724	Bourne Bros., Revelstoke.	$\frac{3}{4}$ "	30	W. H. Malkin & Co., Van- couver.		
" 9	"	49731	B. B. Camozzi, Revelstoke.	$\frac{3}{4}$ "	30	W. H. Malkin & Co., Van- couver.		
" 9	"	49733	D. Gallicano, Revelstoke.	$\frac{3}{4}$ "	30	Kelly Douglas Co., Vancou- ver.		
" 10	"	49736	C. B. Hume & Co., Revel- stoke.	$\frac{3}{4}$ "	30	Empress Mfg. Co., Vancou- ver.		
" 10	"	49741	J. Guiletto, Revelstoke.	$\frac{3}{4}$ "	30	Kelly Douglas Co., Vancou- ver.		
" 23	"	49745	C. A. Warren, Golden, B.C.	$\frac{3}{4}$ "	30	W. H. Malkin & Co., Van- couver.		
" 23	"	49752	H. G. ParsonLtd Golden, B.C.	$\frac{3}{4}$ "	25	Kelly Douglas Co., Vancou- ver.		
" 23	"	49759	C. R. Lumber Co., Golden, B.C.	$\frac{3}{4}$ "	30	W. Braid & Co., Vancouver.		
" 23	"	49765	Rolston & Mit- chell, Golden, B.C.	3 tins.	30	Campbell Bros. Wilson, Winni- peg.		
" 24	"	49768	Field Trading Co., Field, B.C.	$\frac{3}{4}$ lb.	30		Campbell, Wil- son & Horne, Calgary.	
" 25	"	49771	C. B. Hume & Co., Arrow- head, B.C.	$\frac{3}{4}$ "	30	Empress Mfg. Co., Vancou- ver.		
" 25	"	49776	Reid & Young, Arrowhead, B.C.	$\frac{3}{4}$ "	30	Kelly Douglas Co., Vancou- ver.		
Oct. 1	"	49785	Citizens Co-op. Association, Nelson, B.C.	$\frac{3}{4}$ "	30	Empress Mfg. Co., Vancou- ver.		
" 1	"	49788	I. A. Irving, Nelson, B.C.	$\frac{3}{4}$ "	30	Empress Mfg. Co., Vancou- ver.		
" 1	"	49789	Hudsons Bay Co., Nelson, B.C.	$\frac{3}{4}$ "	30	Vendors.....		
" 1	"	49792	Christie & Ben- son, Nelson, B.C.	3 tins.	40	Empress Mfg. Co., Vancou- ver.		



## SESSIONAL PAPER No. 14

## GROUND BLACK PEPPER.

RESULTS OF ANALYSIS.		No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		

THOS. PARKER, INSPECTOR.

P. C.			
3.64	Pepper (stem) only.....	4967	Genuine.
5.18	" " .....	4969	"
4.90	" "	49701	"
8.02	" "	49719	Excess mineral matter, Doubtful.
4.00	" "	49724	Genuine.
4.05	" "	49731	"
4.90	" "	49733	"
6.00	" "	49736	"
7.28	Pepper (stem) and foreign stems cells in excess.	49741	Adulterated.
4.32	Pepper (stem) only.....	49745	Genuine.
5.40	" "	49752	"
5.42	" "	49759	"
5.60	" "	49765	"
7.70	" "	49768	"
5.86	" "	49771	"
4.78	" "	49776	"
3.16	" "	49785	"
4.58	" "	49788	"
6.40	" "	49789	"
5.28	" "	49792	"



Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression) of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VANCOUVER—

1912.								
Sept. 16	Ground B. Pepper	38379	Pioneer Grocery Smythe & Richards Sts., Vancouver, B.C.	$\frac{3}{4}$ lb...	30	Wm. Braid & Co., Vancou- ver.	.....	.....
" 16	"	38380	Walford & Ro- ney, Granville St., Vancou- ver, B.C.	$\frac{3}{4}$ "	30	Wm. Braid & Co., Vancou- ver.	.....	.....
" 16	"	38381	R. Shilling, Sey- mour & Helm- ken Sts., Van- couver. B.C.	$\frac{3}{4}$ "	25	Empress Mfg... Co., Vancouver.	.....	.....
" 16	"	38382	W. H. Walsh Co. Ltd., Sey- mour & Davie Sts., Vancou- ver, B.C.	$\frac{3}{4}$ "	30	Wm. Braid & Co., Vancou- ver.	.....	.....
" 16	"	38383	Halpins Grocery 1169 Granville St., Vancou- ver., B.C.	3 tins.	30	Empress Mfg. Co., Vancou- ver.	.....	.....
" 16	"	38384	Vancouver Gro- cery, Nelson & Granville Sts., Vancou- ver, B.C.	$\frac{3}{4}$ lb...	30	Empress Mfg. Co., Vancou- ver	.....	.....
" 17	"	38385	A. C. Bartig, 8th Ave., & Granville St., Vancouver, B.C.	$\frac{3}{4}$ "	30	Kelly Douglas, Vancouver.	.....	.....
" 17	"	38386	A. MacFarlane, 1469 Broad- way W., Van- couver, B.C.	$\frac{3}{4}$ "	30	Kelly Douglas, Vancouver.	.....	.....
" 17	"	38387	White Thomp- son Co., South Granville St., Vancouver, B.C.	$\frac{3}{4}$ "	30	Empress Mfg. Co., Vancou- ver.	.....	.....
" 17	"	38388	London Grocery Co., 6th Ave., & Granville St., Vancou- ver, B.C	$\frac{3}{4}$ "	30	Kelly Douglas, & Co., Van- couver.	.....	.....
" 17	"	38389	Grouchy & Car- law, 5th Ave. & Granville St., Vancou- ver, B.C.	$\frac{3}{4}$ "	30	Empress Mfg. Co., Vancou- ver.	.....	.....
" 17	"	38390	Turners Grocery Pender & Ho- rby Sts., Van- couver, B.C.	$\frac{3}{4}$ "	25	Kelly Douglas & Co., Van- couver.	.....	.....
" 17	"	38391	A. & C. Grocery 909 Georgia St., Vancou- ver.	$\frac{3}{4}$ "	30	Kelly Douglas & Co., Van- couver.	.....	.....



SESSIONAL PAPER No. 14

GROUND BLACK PEPPER.

RESULTS OF ANALYSIS.		No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		

J. F. POWER, INSPECTOR.

p. c.			
5.04	Pepper tissue only...	38379	Genuine.
5.00	" "	38380	"
6.44	" "	38381	"
4.48	" "	38382	"
5.70	" "	38383	"
6.22	" "	38384	"
5.24	" "	38385	"
4.70	" "	38386	"
5.42	" "	38387	"
4.76	" "	38388	"
5.00	" "	38389	"
4.10	" "	38390	"
4.76	" "	38391	"



Date of Collec- tion.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VANCOUVER

1912.								
Sept. 17	Ground B. Pepper	38392	McTaggart & Co., Robson & Granville Sts., Vancou- ver, B.C.	$\frac{3}{4}$ lb.	30	Kelly Douglas & Co., Van- couver.		
" 17	"	38393	Hudsons Bay Co., Vancou- ver. B.C.	$\frac{3}{4}$ "	30	Wm. Braid & Co., Vancou- ver.		
" 17	"	38394	Mills & Mc- Adam, 2039 4th Ave. W., Vancouver, B.C.	$\frac{3}{4}$ "	30	Unknown.....	Hudsons Bay Co., Vancou- ver.	
" 17	"	38395	J. S. Hirst, 1944 Maple St., Vancouver.	3 tins.	30	W. H. Malkin & Co., Vancou- ver.		"VictoriaCross" Brand spices are absolutely pure.
" 17	"	38396	Cook Bros., 1619 4th Ave., W., Vancouver, B.C.	$\frac{3}{4}$ lb...	25	W. H. Malkin & Co., Vancou- ver.		
" 17	"	38397	David Spencer, Ltd., Vancou- ver.	$\frac{3}{4}$ "	30	Kelly Douglas & Co., Van- couver.		
" 17	"	38398	H. A. Edgett Co., Ltd., Vancouver, B.C.	$\frac{3}{4}$ "	30	Wm. Braid & Co., Vancou- ver.		

DISTRICT OF VICTORIA—

Oct. 17	Ground B. Pepper	49201	H. O. Kirkham, 714 Front St., Victoria, B.C.	$\frac{3}{4}$ lb.	30	Kelly Douglas & Co. Ltd., Vancouver B.C.		
" 17	"	49202	A. Hendry, 2001 Fernwood Rd. Victoria, B.C.	$\frac{3}{4}$ "	25	S. Leiser & Co., Victoria, B.C.		
" 17	"	49203	J. Renouf, Glad- stone & Stan- ley Ave., Vic- toria, B.C.	$\frac{3}{4}$ "	25	Empress Mfg. Co., Vancou- ver, B.C.		
" 17	"	49204	E. B. Jones, 1800 Cook St., Vic- toria, B.C.	$\frac{3}{4}$ "	30	Kelly Douglas Co. Ltd., Van- couver, B.C.		
" 18	"	49205	Chas. Richards, Cook & Mears Sts., Victoria, B.C.	$\frac{3}{4}$ "	25	Pioneer Coffee & Spice Mills Victoria, B.C.		
" 18	"	49206	Linden Groc- ery Co., Lin- den Ave. & May St., Vic- toria, B.C.	$\frac{3}{4}$ "	30	Empress Mfg. Co., Vancou- ver, B.C.		



## SESSIONAL PAPER No. 14

## GROUND BLACK PEPPER.

RESULTS OF ANALYSIS		No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		

*Continued.*

p. c.		No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		
4.62	Pepper times only.	38392	Genuine.
4.22	" "	38393	"
6.62	" "	38394	"
4.54	" "	38395	"
5.08	" "	38396	"
4.40	" "	38397	"
3.68	" "	38398	"

D. O'SULLIVAN, INSPECTOR.

4.60	Pepper times only.	49201	Genuine.
6.08	" "	49202	"
3.92	" "	49203	"
4.48	" "	49204	"
5.00	" "	49205	"
5.00	" "	49206	"



Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF VICTORIA								
1912.								
Sept. 17	Ground B. Pepper.	49207	Pioneer Coffee & Spice Mills, 641 Pembroke St., Victoria, B.C.	$\frac{3}{4}$ lb	15	Vendors.....		
" 10	"	49208	Windsor Groc- ery Co., 1817 Government St., Victoria, B.C.	$\frac{3}{4}$ "	40		Pioneer Coffee & Spice Mills, Victoria, B.C.	
" 11	"	49209	The West End Grocery Co. Ltd., 1009 Gov't. St., Victoria, B.C.	$\frac{3}{4}$ "	30		Wm. Braid & Co., Vancou- ver, B.C.	
" 12	"	49210	Copas & Young, 631 Fort St., Victoria, B.C.	$\frac{3}{4}$ "	20		"	
" 16	"	49211	Acton Bros., 1317 Douglas St., Victoria, B.C.	$\frac{3}{4}$ "	30		Pioneer Coffee & Spice Mills, Victoria, B.C.	
" 16	"	49212	H. & K. Groc- ery, 1425 Doug- las St., Vic- toria, B.C.	$\frac{3}{4}$ "	30		"	
" 18	"	49213	D. H. Ross & Co., 1317 Gov't. St., Victoria, B.C.	$\frac{3}{4}$ "	30		Wm. Braid & Co., Vancouver, B.C.	
" 19	"	49214	Harrison & Mc- Donald, 1218 Douglas St., Victoria, B.C.	$\frac{3}{4}$ "	30		Empress Mfg. Co., Vancou- ver, B.C.	
" 20	"	49215	F. E. Plummer, 1118 Quadra St., Victoria, B.C.	$\frac{3}{4}$ "	25		Pioneer Coffee & Spice Mills, Victoria, B.C.	
" 24	"	49216	E. G. Bailey, 758 Fort St., Vic- toria, B.C.	$\frac{3}{4}$ "	40		Empress Mfg. Co., Vancou- ver, B.C.	
" 25	"	49217	Erskine & Co., 861 Johnston St., Victoria, B.C.	$\frac{3}{4}$ "	30		R. P. Rithet & Co., Victoria, B.C.	
Oct. 15	"	49238	Henry W. Dri- ver, 856 Yates St., Victoria, B.C.	$\frac{3}{4}$ "	25		W. A. Jameson Coffee Co., Victoria, B.C.	
" 15	"	49239	W. A. Jameson Coffee Co., 754 Broughton St., Victoria, B.C.	$\frac{3}{4}$ "	30		Dunn & Co., Hamilton, Ont.	
" 17	"	49240	H. Smith, View St., Victoria, B. C.	$\frac{3}{4}$ "	30		Pioneer Coffee & Spice Mills, Victoria, B.C.	



SESSIONAL PAPER No. 14

## GROUND BLACK PEPPER.

RESULTS OF ANALYSIS.		No. of Samples.	Remarks, and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		

—Continued.

p. c.			
5.12	Pepper leaves only	49207	Genuine.
5.10	" "	49208	"
5.26	" "	49209	"
5.04	" "	49210	"
5.31	" "	49211	"
5.36	" "	49212	"
4.70	" "	49213	"
8.22	" "	49214	Excess mineral matter. Doubtful.
3.16	" "	49215	Genuine.
5.66	" "	49216	"
2.52	" "	49217	"
4.72	" "	49238	"
6.40	" "	49239	"
1.71	" "	49240	"







SESSIONAL PAPER No. 14

## APPENDIX M.

## BULLETIN No. 249—BOTTLED PICKLES.

OTTAWA, February 19, 1913.

WM. HINSWORTH, Esq.,  
Acting Deputy Minister of Inland Revenue.

SIR, I beg to send you herewith a report upon eighty (80) samples of Bottled Pickles, purchased by the inspectors of this Department in April and May of last year. The last report upon Pickles was published as Bulletin No. 163, in September, 1908.

Pickles are, as a rule, very carefully prepared, and we have no reason to believe that any ground for complaint exists in their regard.

Mouldiness was found in four samples of the present collection. This is not, apparently, due to the use of imperfect fruit or vegetables in their preparation, but rather to the employment of too weak a vinegar; vinegar containing  $2\frac{1}{2}$  p. c. of Acetic Acid, or more, appears to be best suited to use in bottled Pickles, so far as our experience goes.

Fourteen samples give evidence of the employment of Acetic Acid having its origin in a distillation process—in their manufacture. The vinegar in admixture with which the pickles are sold, must meet the standards legalized for vinegar under the Adulteration Act.

Sixteen samples exhibit traces of Alum, but only one sample contains any notable amount. Alum is extensively used for the purpose of keeping the vegetables hard and firm. It has not been established that the minute quantities of Alum necessary for this purpose are, in any degree, harmful to human health. This may be due to the fact that Pickles are consumed in small quantity only, and as a condiment rather than for food purposes.

It is probable that sound vegetables can be kept in a desirable state of firmness by the use of Vinegar only, provided that the Vinegar is sufficiently strong.

I beg to recommend publication of this report as Bulletin No. 249.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,  
*Chief Analyst.*



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1912.							
April 25	Bottled Pickles.	47056	Wm. Moore, Halifax, N.S.	3 bots.	60	White & Co., London, Eng.	Maconochie Bros., London, Eng.
" 26	"	47057	John Tobin & Co., Halifax, N.S.	"	60	Heintz & Co., Leamington, Ont.	Manufacturers....
" 26	"	47058	Wentzells, Ltd., Halifax, N.S.	"	75	Maconochie Bros., London, Eng.	"
" 26	"	47059	A. & W. Smith & Co., Halifax, N.S.	"	35	Lea's, Ltd., Simcoe, Ont.	"
" 26	"	47060	The Moulton Tracey Mfg. Co., Halifax, N.S.	"	35	Vendors.....	
DISTRICT OF PRINCE EDWARD ISLAND—							
May 21	Bottled Pickles.	46211	Stewart & Son, Charlottetown, P.E.I.	3 bots.	90	Cross & Blackwell, Soho, London.	
" 21	"	46212	Beer & Goff, Charlottetown, P.E.I.	"	66	Chas. Heaton & Co., West Ferry Road, London, Eng.	
" 21	"	46213	B. F. Maddigan & Co., Charlottetown, P.E.I.	"	60	Matthews, London, Eng.	
" 21	"	46214	John McKenna, Charlottetown, P.E.I.	"	36	Jno. Stephens, Sons & Co., Gloucester, Eng.	
" 21	"	46215	J. P. Duffy, Charlottetown, P.E.I.	"	60	White & Co., London, Eng.	
DISTRICT OF NEW BRUNSWICK—							
April 15	Bottled Pickles.	45650	W. A. Fairweather Co., Ltd., St. John, N.B.	3 bots.	45	Vendors .....	
May 12	"	45651	Yerxa Grocery Co., Fredericton, N.B.	"	57	.....	A. T. Randolph & Son, Fredericton
April 26	"	45652	F. E. Rose, St. Stephen, N.B.	"	75	Lea Pickling & P. Co., Ltd., Simcoe, Ont.	
May 6	"	45653	Geo. T. Baird Co., Ltd., Perth, N.B.	"	54	Jno. Stevens & Co., Ltd., Gloucester, Eng.	
" 10	"	45654	2 Barkers, Ltd., Moncton, N.B.	"	30	Rowat & Co., Glasgow.	
DISTRICT OF QUEBEC—							
April 24	Bottled Pickles.	37428	Emile Emond, 32 Rue Laliberte, Quebec.	3 bots.	45	Lytle, Toronto. ....	J. B. Reneaud & Cie.
" 25	"	37429	Jos. Boutin, 40 Rue de L. Eglise, Quebec.	"	30	Rowat & Co., Glasgow.	Bedard et Frere...
" 25	"	37430	Narcisse Lamontagne, 143 Rue Fleury, Quebec.	"	54	Lytle, Toronto ....	J. B. Reneaud et Cie.
" 25	"	37431	J. E. Marand, 406 Rue St. Valier, Quebec.	"	45	" .....	" ..
" 25	"	37432	J. F. Goslin, 50 Rue D'Orchester, Quebec.	"	54	Imperial Pickles, Glasgow.	Barbeau & Godbout.



SESSIONAL PAPER No. 14  
BOTTLED PICKLES.

Inspector's Report. (Is it an improvement of opinion).	Results of Analysis.				Remarks and Opinion of the Chief Analyst.
	Soundness of Vegetables.	Alum.	Acetic Acid $C_2H_3O_2$	Formic Acid.	

R. J. WAUGH, INSPECTOR.

			p. c.		
421	Sound and Firm...	None....	3.61	Trace	47056
			3.88	None...	47057
			4.07		47058
521		Light	2.46	present.	47059 Acetic Acid used.
Picadilli .....		trace, None.....	1.83	None...	47060

WM. A. WEEKS, INSPECTOR.

		None	3.42	0.042	46211 Acetic Acid used.
			2.82		46212
			4.25	None...	46213
			4.06		46214
		Light	4.17	0.037 present.	46215 Acetic Acid used.

J. C. FERGUSON, INSPECTOR.

	Sound and Firm...	None	1.45	None	45651
Heaton's Pickles....			3.41	0.0194 present.	45652 Acetic Acid used.
			1.50	None	45653
			2.76	0.018 present.	45653 Acetic Acid used.
			1.30	None....	45654

F. X. W. E. BELAND, INSPECTOR.

	Sound and Firm...	None	1.85	None...	37428
			3.14		37429
			2.22		37430
		Light	2.42	" .....	37431
		trace, Heavy trace.	3.19		37432 Alum used.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

## DISTRICT OF ST. HYACINTHE—

1912.							
April 17	Bottled Pickles.	38987	Hector Cyr, Granby..	3 jars.	30	Rowat & Co., Glasgow and Liverpool.	
" 3	"	38988	Fred J. Terrill, Mel-bourne.	3 "	75	The T. A. Lytle Co., Toronto.	
May 1	"	38989	A. Cardin, Actonvale..	3 "	45	Maconochie Bros., Ltd., London, Eng.	
" 3	"	38990	G. Girouard, Victoria-ville.	3 "	45	H. J. Heintz Co. ..	
" 6	"	38991	H. Messier, St. Hyacinthe.	3 "	30	Bastian Pickle Co., Montreal.	

## DISTRICT OF MONTREAL—

April 17	Bottled Pickles.	39995	R. Jacobson, 312 St. Dominique st., Montreal.	3 bots	30	Bastian Pickle Works	
" 17	"	39996	Aubin & Co., St. Lawrence mkt., Montreal	3 "	40	H. Bourque & Son, Montreal.	
" 19	"	39997	S. L. Desaulniers, 437 N. D. st. west, Montreal.	3 "	75	Taylor & Pringle Co., Ltd, Owen Sound.	
" 19	"	39998	"	3 "	30	L. Lemeteys, Montreal.	
" 19	"	39999	J. T. Tracey, 137 McGill st., Montreal.	3 "	75	S. Chivers & Co., Ltd., Cardiff.	

## DISTRICT OF OTTAWA—

April 25	Bottled Pickles.	51605	F. H. Gilchrist, Ottawa.	3 bots.	30	Canadian Pickling Co., Toronto.	T. A. Lytle Co. Toronto.
" 25	"	51607	F. A. Reade, Ottawa..	3 "	30	Rowat & Co., Glasgow.	F. J. Castle Co., Ottawa.
" 25	"	51608	H. Richardson, Ottawa	3 "	75	C. & E. Morton, England.	Unknown ...
" 25	"	51609	J. H. Lacasse, Ottawa.	3 "	30	Purnell & Panter, Bristol, Eng.	Jos. Grant, Ottawa.
" 25	"	51610	W. A. Ferris, Ottawa.	3 "	75	Jno. Stephens, Son & Co., Ltd., Gloucester, Eng.	F. J. Castle Co., Ottawa.

## DISTRICT OF KINGSTON—

April 15	Bottled Pickles.	49565	Albert Powers, Picton.	3 bots.	30	Win. Davies, Toronto	
" 16	"	49566	Hooey & Sons, Cobourg.	3 "	45	Lea's, Simcoe.....	
" 16	"	49567	John Curtis, Port Hope	3 "	30	C. Gildner & Co., Toronto.	
" 17	"	49568	J. R. Bell, Peterboro..	3 "	30	Stephens, Gloucester, Eng.	
" 17	"	49569	Dutton & Co., Peterboro.	3 "	54	T. A. Lytle Co., Toronto.	



SESSIONAL PAPER No. 14  
BOTTLED PICKLES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.				Remarks and Opinion of the Chief Analyst.
	Soundness of Vegetables.	Alum.	Acetic Acid $C_2H_3O_2$	Free Acid.	

J. C. ROULEAU, INSPECTOR.

	Sound and Firm..	Light	2.75	None ....	
		None ....	1.40		
			2.00		
			1.40		
	Mouldy .....	Light	0.21		Very low acidity. Mouldy

J. J. COSTIGAN, INSPECTOR.

Mouldy	Mouldy .....	None	0.51	None ....	Very low acidity. Mouldy.
	Sound and Firm..		2.40		
		Light trace.	3.11		
		None	2.92		
			3.61		

J. A. RICKEY, INSPECTOR.

	Sound and Firm..	None	1.75	None ....	
			3.80		
			3.72	" ....	
			2.60		
		Light trace.	2.95	0.014% present.	51610 Acetic acid used.

JAS. HOGAN, INSPECTOR.

	Sound and Firm..	None ....	2.13	None ....	49565
			2.82	0.011% present.	Acetic acid used.
		"	3.60	None ..	10007
		Light trace.	4.00	0.017% present.	Acetic acid used.
		None		None ....	49569



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF TORONTO—							
1912.							
April 18	Bottled Pickles.	49392	C. Gildner & Co., 180 Front St. East, Toronto.	3 bots.	23	Vendors.	
" 18	" ..	49393	M. R. Yost & Son, 108 Portland St., Toronto	3 "	20	" ..	
" 30	Bulk Sweet Pickles.	49394	Wm. Davies Co., Ltd., 102 Queen St. East, Toronto.	3 pts.	45	" ..	
May 1	" ..	49395	Jas. Lawrie, Wellington St., Hamilton.	3 "	45		H. J. Heinz & Co., Toronto.
" 2	Bot'd Sweet Pickles.	49396	W. J. Whitfield, Main St., East Toronto.	3 bots.	60		Unknown.....
DISTRICT OF LONDON—							
May 7	Bottled Pickles..	48256	W. R. Butcher, St. Mary's.	3 bots.	45	Lea Pickling Co., Simcoe.	
" 7	" ..	48258	M. Fleming, St. Marys.	3 "	35	Stephens, London, Eng.	
" 8	" ..	48264	Stuebing & Son, Berlin.	3 "	45	T. A. Lytle Co., Toronto.	
DISTRICT OF WINDSOR—							
May 2	Bottled Pickles.	48236	F. McDougall, Ingersoll.	3 bots.	45	Heinz, Leamington.	
" 2	" ..	48238	Geo. G. Beck, Ingersoll.	3 "	65	Lea Pickling & Preserving Co., Simcoe.	
" 2	" ..	48239	C. A. O'Neil Estate, Ingersoll.	3 "	60	T. A. Lytle Co., Toronto.	
" 3	" ..	48245	Poole & Co., Woodstock	3 "	75	Crosse & Blackwell, London, Eng.	
" 3	" ..	48249	A. M. Smith & Son, Woodstock.	3 "	30	Rowat & Co., Glasgow.	
" 8	" ..	48266	Schell Bros., Berlin..	3 "	30	G. E. Steggall, Streetsville.	
" 8	" ..	48268	Betzner & Co., Berlin.	3 "	75	Maconochie Bros., London, Eng.	
DISTRICT OF MANITOBA—							
April 16	Bottled Pickles.	48641	St. James Cash Grocery, St. James, M.	3 bots.	60	The Dyson Co., Winnipeg.	
" 16	" ..	48642	" ..	3 "	75	" ..	
" 16	" ..	48643	Duncan & Hunter, St. James, M.	3 "	75	The Blackwood, Ltd., Winnipeg.	
" 16	" ..	48644	" ..	3 "	75	The White Star Mfg. Co., Winnipeg.	
" 17	" ..	48645	J. Paterson, Portage Ave., Winnipeg.	3 "	75	" ..	



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	Soundness of Vegetables.	Alum.	Acetic Acid $C_2H_3O_2$	Formic Acid.	

## H. J. DAGER, INSPECTOR.

			p. c.		
Standard "Brand"...	Sound and Firm...	Trace...	1.00	None	1863
		None.....	3.00		1865
			1.38		1864
			3.00		1866
"Queen Quality"...			2.72		1868

## JNO. TALBOT, ACTING INSPECTOR.

Lea's Celebrated	Sound and Firm...	Light	2.31	None	1869
Pickles.		Trace.			
Stephenson's	None	None.....	3.21	"	1870
Pickles.					
Lea's "Sweet		Trace	2.00	"	1871
M. L. & Co. "Star					
ling" Brand.					

## JNO. TALBOT, INSPECTOR.

Heinz Sweet Mixed	Sound and Firm	None	2.95	None	1876
Pickles.					
Lea's Celebrated			2.16	"	1878
Pickles, mixed fruit					
Sterling Brand Sweet		Light	1.92		1879
Mixed Pickles		trace.			
Mixed Pickles....		None	3.36	"	1881
Rowatt's Superior			3.12	"	1883
Pickles.					
English "Jelly" Brand			2.24	"	1884
Pickles.					
Macmillan's Fruit			4.16	Acetic Acid used.	1885
Pickles.				present.	

## A. C. LARIVIERE, INSPECTOR.

East India Relish...	Sound and Firm...	Trace	3.68	None	18641
Sweet Mixed Pickles.		None.	2.88		18642
Blackwood's Onion		"	5.39		18643
Pickles.					
Sweet Mixed Pickles			2.79		18644
			2.00		18645



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF CALGARY—

1912.							
April 7	Bottled Pickles.	44160	Campbell, Wilson & Horne, Lethbridge.	3 bots.	60	The Dyson Co., Winnipeg.	
" 7	"	44161	H. A. McKillop & Co., Lethbridge.	3 "	1 20	H. J. Heinz, Pittsburg.	
" 7	"	44162	A. MacDonald Co., Lethbridge.	3 "	50	White Star Manufacturing Co., Winnipeg.	
" 7	"	44163	Hudson Bay Co., Lethbridge.	3 "	1 00		
" 7	"	44164	Bentley Co., Ltd., Lethbridge.	3 "	75	Lea Pickling and Preserving Co., Simcoe, Ont.	

DISTRICT OF NELSON—

April 18	Bottled Pickles.	49643	Cooper & Christine, Vernon, B.C.	3 bots.	75	Rowat & Co., Glasgow, Scot.	
" 18	"	49647	W. H. Smith, Vernon, B.C.	3 "	90	Leas, Ltd., Simcoe, Ont.	
" 18	"	49648	"	3 "	1 20	Gillard & Co., London.	
" 18	"	49652	W. R. Megaw, Vernon, B.C.	3 "	1 05	Dewar, Watson & Co., Glasgow, Scot.	
" 18	"	49653	"	3 "	1 00	Wilson's, Leeds, Eng.	

DISTRICT OF VANCOUVER—

May 2	Bottled Pickles.	38341	Gruchy & Carlaw, Vancouver.	3 jars.	1 05	Crosse & Blackwell, London, Eng.	
" 2	"	38342	Armour MacFarlane, Vancouver.	3 "	75	Thos. W. Lipton, London, Eng.	
" 2	"	38343	Cook Bros., 4th Ave., Vancouver.	3 "	75	Rowat & Co., Liverpool, Eng.	
" 2	"	38344	Z. Stephens, 4th Ave., Vancouver.	3 "	75	White Star Mfg. Co., Winnipeg.	
" 2	"	38345	Mills & McAdam, Vancouver.	3 "	75	Maconochie Bros., London, Eng.	

DISTRICT OF VICTORIA—

April 23	Bottled Pickles.	49140	Windsor Grocery Co., Victoria.	3 bots.	1 05	W. R. Houston & Co., Victoria.	
" 24	"	49141	The West End Grocery Co., Ltd., Victoria.	3 "	60	E. Lazenby & Son, London, S.E.	
" 24	"	49142	Harrison & McDonald, Victoria.	3 "	75	Holbrook & Co., London, Eng.	
" 25	"	49143	Wm. B. Hall, Victoria.	3 "	1 05	H. J. Heintz & Co., Pittsburg.	
" 25	"	49144	Dixie H. Ross, Victoria.	3 "	75	C. & E. Morton, London, Eng.	



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	Soundness of Vegetables.	Alum.	Acetic Acid $C_2H_4O_2\%$	Formic Acid.	$\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{8}$ $\frac{1}{16}$ $\frac{1}{32}$ $\frac{1}{64}$ $\frac{1}{128}$ $\frac{1}{256}$ $\frac{1}{512}$ $\frac{1}{1024}$ $\frac{1}{2048}$ $\frac{1}{4096}$ $\frac{1}{8192}$ $\frac{1}{16384}$ $\frac{1}{32768}$ $\frac{1}{65536}$ $\frac{1}{131072}$ $\frac{1}{262144}$ $\frac{1}{524288}$ $\frac{1}{1048576}$ $\frac{1}{2097152}$ $\frac{1}{4194304}$ $\frac{1}{8388608}$ $\frac{1}{16777216}$ $\frac{1}{33554432}$ $\frac{1}{67108864}$ $\frac{1}{134217728}$ $\frac{1}{268435456}$ $\frac{1}{536870912}$ $\frac{1}{1073741824}$ $\frac{1}{2147483648}$ $\frac{1}{4294967296}$ $\frac{1}{8589934592}$ $\frac{1}{17179869184}$ $\frac{1}{34359738368}$ $\frac{1}{68719476736}$ $\frac{1}{137438953472}$ $\frac{1}{274877906944}$ $\frac{1}{549755813888}$ $\frac{1}{1099511627776}$ $\frac{1}{2199023255552}$ $\frac{1}{4398046511104}$ $\frac{1}{8796093022208}$ $\frac{1}{17592186044416}$ $\frac{1}{35184372088832}$ $\frac{1}{70368744177664}$ $\frac{1}{140737488355328}$ $\frac{1}{281474976710656}$ $\frac{1}{562949953421312}$ $\frac{1}{1125899906842624}$ $\frac{1}{2251799813685248}$ $\frac{1}{4503599627370496}$ $\frac{1}{9007199254740992}$ $\frac{1}{18014398509481984}$ $\frac{1}{36028797018963968}$ $\frac{1}{72057594037927936}$ $\frac{1}{144115188075855872}$ $\frac{1}{288230376151711744}$ $\frac{1}{576460752303423488}$ $\frac{1}{1152921504606846976}$ $\frac{1}{2305843009213693952}$ $\frac{1}{4611686018427387904}$ $\frac{1}{9223372036854775808}$ $\frac{1}{18446744073709551616}$ $\frac{1}{36893488147419103232}$ $\frac{1}{73786976294838206464}$ $\frac{1}{147573952589676412928}$ $\frac{1}{295147905179352825856}$ $\frac{1}{590295810358705651712}$ $\frac{1}{1180591620717411303424}$ $\frac{1}{2361183241434822606848}$ $\frac{1}{4722366482869645213696}$ $\frac{1}{9444732965739290427392}$ $\frac{1}{18889465931478580854784}$ $\frac{1}{37778931862957161709568}$ $\frac{1}{75557863725914323419136}$ $\frac{1}{151115727451828646838272}$ $\frac{1}{302231454903657293676544}$ $\frac{1}{604462909807314587353088}$ $\frac{1}{1208925819614629174706176}$ $\frac{1}{2417851639229258349412352}$ $\frac{1}{4835703278458516698824704}$ $\frac{1}{9671406556917033397649408}$ $\frac{1}{19342813113834066795298816}$ $\frac{1}{38685626227668133590597632}$ $\frac{1}{77371252455336267181195264}$ $\frac{1}{154742504910672534362390528}$ $\frac{1}{309485009821345068724781056}$ $\frac{1}{618970019642690137449562112}$ $\frac{1}{1237940039285380274899124224}$ $\frac{1}{2475880078570760549798248448}$ $\frac{1}{4951760157141521099596496896}$ $\frac{1}{9903520314283042199192993792}$ $\frac{1}{19807040628566084398385987584}$ $\frac{1}{39614081257132168796771975168}$ $\frac{1}{79228162514264337593543950336}$ $\frac{1}{158456325028528675187087900672}$ $\frac{1}{316912650057057350374175801344}$ $\frac{1}{633825300114114700748351602688}$ $\frac{1}{1267650600228229401496703205376}$ $\frac{1}{2535301200456458802993406410752}$ 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$\frac{1}{196159429230833773869868419475239575503198607639501078528}$ $\frac{1}{392318858461667547739736838950479151006397215279002157056}$ $\frac{1}{784637716923335095479473677900958302012794430558004314112}$ $\frac{1}{1569275433846670190958947355801916604025588861116008628224}$ $\frac{1}{3138550867693340381917894711603833208051177722232017256448}$ $\frac{1}{6277101735386680763835789423207666416102355444464034512896}$ $\frac{1}{12554203470773361527671578846415332832204710888928069025792}$ $\frac{1}{25108406941546723055343157692830665664409421777856138051584}$ $\frac{1}{50216813883093446110686315385661331328818843555712276103168}$ $\frac{1}{100433627766186892221372630771322662657637687111424552206336}$ $\frac{1}{200867255532373784442745261542645325315275374222849104412672}$ $\frac{1}{401734511064747568885490523085290650630550748445698208825344}$ $\frac{1}{803469022129495137770981046170581301261101496891396417650688}$ 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$\frac{1}{13164036458569648337239753460458804039861886925068638906788872192}$ $\frac{1}{26328072917139296674479506920917608079723773850137277813577744384}$ $\frac{1}{52656145834278593348959013841835216159447547700274555627155488768}$ $\frac{1}{105312291668557186697918027683670432318895095400549111254310977536}$ $\frac{1}{210624583337114373395836055367340864637790190801098222508621955072}$ $\frac{1}{421249166674228746791672110734681729275580381602196445017243910144}$ $\frac{1}{842498333348457493583344221469363458551160763204392890034487820288}$ $\frac{1}{1684996666696914987166688442938726917102321526408785780068975640576}$ $\frac{1}{3369993333393829974333376885877453834204643052817571560137951281152}$ $\frac{1}{6739986666787659948666753771754907668409286105635143120275902562304}$ $\frac{1}{13479973333575319897333507543509815336818572211270286240551805124608}$ $\frac{1}{26959946667150639794667015087019630673637144422540572481103610249216}$ $\frac{1}{53919893334301279589334030174039261347274288845081144962207220498432}$ $\frac{1}{107839786668602559178668060348078522694548577690162289924414440996864}$ $\frac{1}{215679573337205118357336120696157045389097155380324579848828881993728}$ $\frac{1}{431359146674410236714672241392314090778194310760649159697657763987456}$ $\frac{1}{862718293348820473429344482784628181556388621521298319395315527974912}$ $\frac{1}{1725436586697640946858688965569256363112777243042596638790631055949824}$ $\frac{1}{3450873173395281893717377931138512726225554486085193277581262111899648}$ $\frac{1}{6901746346790563787434755862277025452451108972170386555162524223799296}$ $\frac{1}{13803492693581127574869511724554050904902217944340773110325048447598592}$ $\frac{1}{27606985387162255149739023449108101809804435888681546220650096895197184}$ $\frac{1}{55213970774324510299478046898216203619608871777363092441300193790394368}$ $\frac{1}{110427941548649020598956093796432407239217743554726184882600387580788736}$ 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## APPENDIX N.

## BULLETIN No. 250—GROUND WHITE PEPPER.

OTTAWA, February 19, 1913.

WM. HIMSWORTH, Esq.,  
Acting Deputy Minister,  
Inland Revenue.

SIR,—I beg herewith to hand you a report upon two hundred and seventy three samples sold to our inspectors as Ground White Pepper in September and October of last year. The inspection was made throughout the Dominion, and may be taken to fairly represent the article found upon the Canadian market.

The result of the analysis may be summarized as follows:

Found genuine...	215 samples.
“ adulterated	53 “
“ doubtful...	5 “
Total	273 “

It thus appears that adulteration in White Pepper amounts to 19% of the samples collected. The last report upon White Pepper is contained in Bulletin No. 203, of March, 1910; on that occasion one hundred and forty samples were reported and adulteration amounted to 17%.

It will be seen that both White and Black Pepper continue to be among the most extensively adulterated foodstuffs on the market.

I beg to recommend the publication of this report as Bulletin No. 250.

I have the honour to be, Sir

Your obedient servant,

A. MCGILL,  
*Chief Analyst.*



Date of Collec- tion.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quality.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA—

1912.								
Sept. 11	Ground White Pepper	46821	Wentzells L'd., Halifax, N.S.	$\frac{3}{4}$ lb.	22	Jno. P. Mott Co. Halifax, N.S.	Manufacturers .....	
" 11	"	46822	Wm. Moore, Halifax, N.S.	$\frac{3}{4}$ "	27	Jno. P. Mott Co., Halifax, N.S.	" .....	
" 13	"	46823	Jno. P. Mott & Co., Halifax, N.S.	$\frac{3}{4}$ "	nil	Vendors.....	.....	
" 13	"	46824	Nat. Drug & Chem. Co., Halifax, N.S.	$\frac{3}{4}$ "	25	" .....	.....	
" 16	"	46825	Morrison & Wil- liams, Hali- fax, N.S.	$\frac{3}{4}$ "	22	Puddington, Wetmore & Morrison, St. John, N.B.	Manufacturers .....	
" 17	"	46826	Bauld Bros., Ltd., Halifax, N.S.	$\frac{3}{4}$ "	19	Unknown, said to be J. R. Mott & Co., Halifax.	.....	
" 17	"	46827	Jas. Scott & Co., Halifax, N.S.	$\frac{3}{4}$ "	30	W. H. Schwartz & Sons, Hali- fax.	Manufacturers .....	
" 18	"	46828	Corkum & Rit- cey, Halifax, N.S.	$\frac{3}{4}$ "	23	Gorman Eckert Co., London, Ont.	" .....	
" 18	"	46829	A. J. Baker & Co., Halifax, N.S.	$\frac{3}{4}$ "	30	Gorman Eckert Co., London, Ont.	" .....	
" 19	"	46830	W. H. Schwartz & Sons, Hali- fax, N.S.	$\frac{3}{4}$ "	20	Vendors.....	.....	
" 19	"	46831	E. W. Crease & Son, Halifax, N.S.	$\frac{3}{4}$ "	30	Jno. P. Mott & Co., Halifax.	Manufacturers .....	
" 19	"	46832	Dillon Bros., Ha- lifax, N.S.	$\frac{3}{4}$ "	45	Todhunter, Mit- chell Co., To- ronto, Ont.	" ..	
" 24	"	46833	Yerxas, Yar- mouth, N.S.	$\frac{3}{4}$ "	25	H. W. Cole, St. John, N.S.	" .....	
" 27	"	46834	Eisener & Cole- man, Dart- mouth, N.S.	$\frac{3}{4}$ "	38	C. H. Cochrane Co., Ottawa.	" .....	
Oct. 3	"	46835	A. F. Ross, Tru- ro, N.S.	$\frac{3}{4}$ "	35	Unknown.....	.....	
" 5	"	46836	H. C. Barnaby & Sons Bridge- water, N.S.	$\frac{3}{4}$ "	30	Jno. P. Mott & Co., Halifax,	Manufacturers .....	
" 7	"	46837	Jas. Hogan, Hali- fax, N.S.	$\frac{3}{4}$ "	30	Unknown.....	.....	
" 8	"	46838	T. J. Brown, $\frac{3}{4}$ Halifax, N.S.	"	30	" .....	.....	
" 8	"	46839	W. J. Hopgood & Son, Hali- fox, N.S.	$\frac{3}{4}$ "	30	W. H. Schwartz & Sons, Hali- fax, N.S.	Manufacturers .....	
" 8	"	46840	C. McNab & Co., Dart- mouth, N.S.	$\frac{3}{4}$ "	30	Jno. P. Mott & Co., Halifax, N.S.	" .....	



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GROUND WHITE PEPPER.

RESULTS OF ANALYSIS.			Remarks and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.	No. of Sample	

R. J. WAUGH, INSPECTOR.

1.62	Pepper tissues only	46821	Genuine.
1.45	" "	46822	"
1.70	" "	46823	"
1.60	" "	46824	"
1.74	" "	46825	"
1.44	" "	46826	"
2.00	" "	46827	"
1.06	" "	46828	"
1.40	" "	46829	"
1.40	" "	46830	"
4.48	" " 1.00% pepper	46831	"
1.32	" "	46832	"
1.64	" "	46833	"
1.60	" "	46834	"
3.06	" "	46835	"
1.38	" "	46836	"
4.64	Pepper tissues, wheat starch and foreign stone cells.	46837	Adulterated.
1.96	Pepper tissues only.....	46838	Genuine.
2.06	" "	46839	"
1.20	" "	46840	"



Date of Collec- tion.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF PRINCE EDWARD ISLAND

1912. Sept.	6	Ground White Pepper.	46247 Grant & Co., Ch. Town, P. E.I.	$\frac{3}{4}$ lb.	27	White Swan S. & C., Ltd., Toronto.		
"	6	"	46248 J. G. Jamieson, Ch. Town, P.E.I.	$\frac{3}{4}$ "	36	Lymans, Ltd., Montreal.		
"	7	"	46249 A. Gates & Co., Ch. Town, P. E.I.	$\frac{3}{4}$ "	30			
"	9	"	46250 Coffin & Co., Ch. Town, P. E.I.	$\frac{3}{4}$ "	30	G. D. Barbour, St. John, N.B.		
"	10	"	46251 The McKinnon Drug Co., Ch. Town, P.E.I.	$\frac{3}{4}$ "	24	Unknown.....		
"	12	"	46252 The W.W. Walker Ch. Town, P. E.I.	"	30		Carvell Bros., Ch. Town, P. E.I.	
"	12	"	46253 L. A. Haszard, Ch. Town, P. E.I.	$\frac{3}{4}$ "	27	Schwartz & Sons Halifax.		
"	21	"	46254 Apothecaries Hall, Ch. Town, P.E.I.	$\frac{3}{4}$ "	24	Lymans, Ltd., Montreal.		
"	21	"	46255 Sanderson & Co., Ch. Town, P. E.I.	$\frac{3}{4}$ "	30	Schwartz & Sons, Halifax, N.S.		
Oct.	1	"	46256 Gourlies, Ltd., Summerside, P.E.I.	$\frac{3}{4}$ "	30	Canadian Drug Co., St. John, N.B.		
"	1	"	46257 Sinclair & Ste- wart, Sum- merside, P.E. I.	$\frac{3}{4}$ "	30	Schwartz & Sons, Halifax, N.S.		
"	1	"	46258 Brace McKay & Co., Summer- P.E.I..	$\frac{3}{4}$ "	30	Schwartz & Sons, Halifax N.S.		
"	3	"	46259 Mathew & Mc- Lean, Souris,	$\frac{3}{4}$ "	30	Dearborn & Co St. John, N.B.		

DISTRICT OF NEW BRUNSWICK—

Sept.	4	Ground White Pepper.	50420 Dearborn & Co., St. John, N.B.	$\frac{3}{4}$ lb.	21	Vendors..		
"	4	"	50421 Puddington, Wetmore & Morrison, Ltd., St. John, N.B.	$\frac{3}{4}$ "	21	"		
"	4	"	50422 G. E. Barbour Co., Ltd., St. John, N.B.	$\frac{3}{4}$ "	28	"		
"	5	"	50423 H. W. Cole, Ltd., St. John, N.B.	$\frac{3}{4}$ "	24	"		
"	5	"	50424 L. H. Thorne, S. John, N.B.	$\frac{3}{4}$ "	21	"		



## GROUND WHITE PEPPER.

Remarks and Opinion  
of the  
Chief Analyst.

No. of

WM. A. WEEKS, INSPECTOR.

1-44	Peppe, tissues only.....	46247	Genuine.
1-48	" " .....	46248	" "
1-60	Peppe, tissues and wheat straw.....	46249	Very good.
1-62	Peppe, tissues, etc.....	46250	Genuine.
1-46	" " .....	46251	" "
1-40	" " .....	46252	" "
2-00	" " .....	46253	" "
1-20	" " .....	46254	" "
1-05	" " .....	46255	" "
2-08	" " .....	46256	" "
1-04	" " .....	46257	" "
1-30	" " .....	46258	" "
1-05	" " .....	46259	" "

JNO. FERGUSON, INSPECTOR.

1-68	Pepper to sun only	50420	Genuine.
1-42	" "	50421	"
1-08	" "	50422	"
1-20	" "	50423	"
1-64	" "	50424	"



Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quality.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NEW BRUNSWICK—

1912.								
Sept. 9	Ground white pepper.	50425	Baird & Peters, St. John, N.B.	$\frac{3}{4}$ lb	19	Vendors.....		
" 10	"	50426	W. A. Simonds, St. John, N.B.	$\frac{3}{4}$ "	30	Todhunter, Mit- chell & Co., Toronto, Ont.		
" 10	"	50427	McPherson Bros., St. John, N.B.	$\frac{3}{4}$ "	30	C. H. Cochrane Co., Ottawa, Ont.		
" 11	"	50428	F. E. Williams & Co., St. John, N.B.	$\frac{3}{4}$ "	30	J. P. Mott & Co., Halifax, N.S.		
" 16	"	50429	M. E. Grass, St. John, N.B.	$\frac{3}{4}$ "	30		Jones & Scho- field, St. John, N.B.	
Oct. 3	"	50430	John McKnight, Fredericton, N.B.	$\frac{3}{4}$ "	30	G. E. Barbour Co., Ltd. St. John, N.B.		
" 3	"	50431	G. T. Whelpley, estate Freder- icton, N.B.	$\frac{3}{4}$ "	30	Pure Gold Mfg. Co., Toronto.		
" 15	"	50432	Mills Eveliegh Co. Ltd., Sus- sex, N.B.	$\frac{3}{4}$ "	30	Unknown.....	Unknown.....	Old stock, Ve dor would n guarantee quality.
" 15	"	50433	Sussex Mercan- tile Co. Ltd., Sussex, N.B.	$\frac{3}{4}$ "	27		H. W. Cole, Ltd. S. John, N.B.	"Thistle" Brand.
" 16	"	50434	Geo. A. Rober- son, Moncton, N.B.	$\frac{3}{4}$ "	27	S. H. Ewing & Son, Montreal.		
" 16	"	50435	H. T. Brewster, Moncton, N.B.	$\frac{3}{4}$ "	27		Reed Co. Ltd., Moncton, N.B.	
" 16	"	50436	The 2 Barkers Ltd., Moncton N.B.	$\frac{3}{4}$ "	27		The 2 Barkers Ltd., St. John, N.B.	
" 17	"	50437	Miller Bros., Newcastle, N.B.	$\frac{3}{4}$ "	30	Todhunter Mit- chell & Co. Toronto, Ont.		
" 18	"	50438	J. B. Snowball Co. Ltd., Chat ham, N.B.	$\frac{3}{4}$ "	30	Todhunter Mit- chell & Co. Toronto, Ont.		
" 19	"	50439	A. T. Hinton, Bathurst, N.B.	$\frac{3}{4}$ "	27		Reed Co. Ltd., Moncton, N.B.	Old stock wou not guarant purity.

DISTRICT OF QUEBEC

Sept. 16	Ground white pepper.	37201	Hamel & Bed- ard, 728 Rue Quebec	$\frac{3}{4}$ lb.	30	LitsterPureFood Manufacturers...		
" 17	"	37202	V. Lacasse & Cie, 7 Rue St. Clair, Quebec.	$\frac{3}{4}$ "	30	J. Lemesaire....	Whitead & Tur- ner.	
" 17	"	37203	J. E. Paquet, 8 Rue Suther- land Quebec.	$\frac{3}{4}$ "	30	Unknkwo.....	Unknown.....	



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GROUND WHITE PEPPER.

RESULTS OF ANALYSIS.			Remarks and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.	No. of Sample.	

Concluded.

1.40	Pepper tissues only	50425	Genuine.
1.40	" "	50426	"
1.22	" "	50427	"
1.20	" "	50428	"
3.40	" "	50429	"
1.42	" "	50430	"
1.20	" "	50431	"
1.24	Pepper tissues and foreign stone cells in excess.....	50432	Adulterated, sold without guarantee of purity
0.96	Pepper tissues only.....	50433	Genuine.
1.16	" "	50434	"
1.42	" "	50435	"
2.84	" "	50436	"
1.08	" "	50437	"
1.72	" "	50438	"
1.74	" "	50439	"

F. X. W. E. BELAND, INSPECTOR.

1.26	Pepper tissues only	37201	Genuine.
1.12	" "	37202	"
2.36	Pepper tissues and maize starch	37203	Adulterated.



Date of Collec- tion.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF QUEBEC—

1912	Ground White pepper.							
Sept. 17		37204	L. Filion, 166 <sup>3</sup> / <sub>4</sub> lb Rue Latourel, Quebec.	30	Quebec, Spice...	Manufacturers...		
" 17	"	37205	J. Rochette, 7 <sup>3</sup> / <sub>4</sub> " Rue Deligny, Quebec.	30	Unknown.....	Langlois & Par- adis.		
" 18	"	37206	Alfred Boily, 38 <sup>3</sup> / <sub>4</sub> " Cote D'Abra- ham, Quebec.	30	Herron & Le- blanc.	Manufacturers...		
" 18	"	37207	M. Boyce & Son 1922 Cote D'Abraham, Quebec.	30	Herron & Le- blanc.	"		
" 18	"	37208	J. A. Tramblay, 139 Rue Rich- lieu, Quebec.	30	Unknown..	J. B. Reneaud & Cie.		
" 19	"	37209	Geo. Trottier, 180 <sup>1</sup> / <sub>2</sub> Rue St. Olivier, Que.	30	Unknown..	Unknown.		
" 19	"	37210	Emile Brousseau 17 Rue Suther- land Quebec.	30	.....	.....		
" 19	"	37211	R. Cantin, 326 <sup>3</sup> / <sub>4</sub> " Rue St. Oliv- ier Quebec.	30	Canadian Spice Mills.	Manufacturers...		
" 3	"	37492	Eudore Delisle, 2 ave. Tacher- eau, Quebec.	30	Herron & Le- blanc.	Manufacturers...		
" 4	"	37493	O. Lacroix, 19 <sup>3</sup> / <sub>4</sub> " Rue St. Joseph Quebec.	30	Lemesarie &	J. B. Reneaud & Cie.		
" 5	"	37494	W. Cantin, 133 <sup>3</sup> / <sub>4</sub> " Rue du Pont, Quebec.	30	.....	Unknown.....		
" 6	"	37495	G. Gingras, 268 <sup>3</sup> / <sub>4</sub> " Rue duRaie, Quebec.	30	Unknown.....	.....		
" 9	"	37496	Cantin & Frere, 271 Rue St. Joseph, Que.	30	"	.....		
" 10	"	37497	C. S. Riverin, 50 Rue de la Couronne, Que	30	.....	.....		
" 11	"	37498	Myrand & Pou- liot, 70 Rue de la Courronne, Quebec.	30	Unknown.....	Unknown.....		
" 12	"	37499	Arthur Drolet, 714 Rue St. Valier, Que.	30	"	Herron & Le- blanc.		
" 13	"	37500	Arthur Rinfret, 414 Rue S. Joseph, Que.	30	"	Unknown.....		



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## GROUND WHITE PEPPER.

RESULTS OF ANALYSIS.			Remarks and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.	No. of Sample.	

*Concluded.*

2.24	Pepper tissues only.....	37204	Genuine.
1.46	" ".....	37205	"
2.54	Pepper tissues and wheat starch.....	37206	Adulterated.
1.08	" " " ".....	37207	"
3.88	Pepper tissues only.....	37208	Genuine.
2.30	Pepper tissues and wheat starch.....	37209	Adulterated.
1.74	Pepper tissues wheat, and other starches.....	37210	"
1.04	Pepper tissues only.....	37211	Genuine.
2.20	Pepper tissues and wheat starch.....	37492	Adulterated.
1.08	Pepper tissues only.....	37493	Genuine.
1.24	" ".....	37494	"
1.64	Pepper tissues and wheat starch.....	37495	Adulterated.
2.18	Pepper tissues and a little wheat starch.....	37496	Doubtful..
1.04	Pepper tissues and a little maize starch.....	37497	"
1.90	Pepper tissues, wheat and maize starches.....	37498	Adulterated.
1.42	" ".....	37499	"
1.46	Pepper tissues only.....	37500	Genuine.



Date of Collec- tion.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Re- port (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF ST. HYACINTHE

1912.								
Sept. 16	Ground White pepper.	1412	A. Letendre, St. Bonaventure.	$\frac{3}{4}$ lb.	30	.....	C. Labelle & Cie Sorel.	.....
" 17	" ..	1413	L. Des cheneau, Pierreville Mills.	$\frac{3}{4}$ "	30	.....	C. Labelle & Cie Sorel.	.....
" 17	" ..	1414	J. E. Turbicle, Yamaska, est.	$\frac{3}{4}$ "	15	.....		.....
" 18	" ..	1415	A. Casaban Sorel.	$\frac{3}{4}$ "	26	.....	Kearney Bros. Montreal.	.....
" 18	" ..	1416	H. Tetrault Contrecoeur.	$\frac{3}{4}$ "	30	.....	L. Chaput, fils & Cie, Montreal	.....
" 19	" ..	1417	H. de La Barre Lac St. Ours.	$\frac{3}{4}$ "	30	J. V. Boudrias, Montreal.		.....
" 19	" ..	1418	J. A. Girouard, St. Ours.	$\frac{3}{4}$ "	30	S. H. Ewing & Son, Montreal		.....
" 24	" ..	1419	W. R. Simpson, St. Jean.	$\frac{3}{4}$ "	30	White Swan S. & C. Ltd., Toronto.		.....
" 25	" ..	1420	Aime Lemieux, Henryville.	3 tins	30	.....		.....
" 25	" ..	1421	Corriveau & Freres, St. Sebas'tien.	$\frac{3}{4}$ lb.	23	Unknown. ....	S. H. Ewing & Sons.	.....
" 26	" ..	1422	J. E. England, Dunham.	$\frac{3}{4}$ "	30	Pure Gold Mfg. Co., Toron o.		.....
" 27	" ..	1423	T. Landry & fils, Philipsburg	$\frac{3}{4}$ "	23	Unknown.....	Unknown. ....	.....
Oct. 2	" ..	1424	Nap. Sevigny, Megantic.	$\frac{3}{4}$ "	25	.....	W. Genest & fils Sherbrooke.	.....
" 2	" ..	1425	F. Lapointe & Cie., Megantic	$\frac{3}{4}$ "	30	S. H. Ewing & & Sons, Mon- real.		.....
" 3	" ..	1426	T. R. Paige, Coaticook.	3 tins	23	Herron Leblanc Ltd., Mon - real.		.....
" 3	" ..	1427	Hopkins & Mc- Kee, Coa i- cook.	$\frac{3}{4}$ lb.	24	LilsterPureFood Co. Ltd., To- ronto.		.....
" 4	" ..	1428	J. B. LeBaron, North Hatley	3 tins.	30	White Swan S. & C., Ltd., Toronto.		.....
" 9	" ..	1429	Oliver Bros., Mansonville...	3 "	30	White Swan S. & C. Ltd., To- ronto.		.....
" 10	" ..	1430	Chas. Lefebvre, Sherbrooke.	$\frac{3}{4}$ lb.	30	.....	Denault Grain& Produce Co., Sherbrooke.	.....
" 14	" ..	1431	Gregoire Freres, St. Hyacinthe	$\frac{3}{4}$ "	30	Unknown.....	Unknown.....	.....



## SESSIONAL PAPER No. 14

## GROUND WHITE PEPPER.

## RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
1.68	Pepper tissues only.	1412	Genuine.
1.60	Pepper tissues, maize and wheat starches.	1413	Adulterated.
6.52	Pepper tissues, maize and wheat starches, (Black pepper).	1414	"
0.84	Pepper tissues only.	1415	Genuine.
1.02	" "	1416	"
1.20	" "	1417	"
2.66	Pepper tissues and foreign stone cells in excess.	1418	Adulterated.
1.24	Pepper tissues only.	1419	Genuine.
2.72	Pepper tissues and wheat starch.	1420	Adulterated.
2.22	Pepper tissues, wheat starch and foreign stone cells in excess....	1421	"
1.02	Pepper tissues only.....	1422	Genuine.
1.46	" "	1423	"
1.80	" "	1424	"
1.64	Pepper tissues and foreign stone cells in excess.	1425	Adulterated.
1.48	Pepper tissues and wheat starch.....	1426	"
1.58	Pepper tissues only.	1427	Genuine.
1.20	" "	1428	"
1.04	" "	1429	"
2.46	" "	1430	"
1.44	" "	1431	"



Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression o opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF MONTREAL

1912								
Sept. 10	Ground White Pepper.	50961	McFaul Bros., Lachute, P.Q.	$\frac{3}{4}$ lb.	30			
" 10	"	50962	T. Dallaire, La- chute, P.Q.	$\frac{3}{4}$ "	15	Thos. Barrow,		
" 10	"	50963	A. Lavigne, La- chute, P.Q.	$\frac{3}{4}$ "	30			
Oct. 1	"	50964	A. W. Hugman, Ltd., 281 St. Paul St., Mon- treal.	$\frac{3}{4}$ "	28	Vendors.		
" 1	"	50965	A. Kouri, 31 Bonsecours st. Montreal.	$\frac{3}{4}$ "	30			
" 1	"	50966	John Stroud, 1103 St. Law- rence B., Mon- treal.	$\frac{3}{4}$ "	30			
" 3	"	50967	J. E. Groulx, 1057 Laurier Ave. W., Ou- tremond, P.Q.	$\frac{3}{4}$ "	30	S. H. Ewing & Sons.		
" 3	"	50968	Limoges et frere 2000 Hutchi- son st., Mont- real.	$\frac{3}{4}$ "	30		Hudon Hebert & Cie., Ltd.	
" 3	"	50969	A. Gadbois, Hutchison & St. Viateur st., Montreal.	$\frac{3}{4}$ "	30	J. V. Boudrias, Montreal.		
" 3	"	50970	The Park Pro- sion Co., 209 St. Viateur st., Outremont, P.Q.	$\frac{3}{4}$ "	30	S. H. Ewing & Sons.		
" 3	"	50971	H. Ward, 108 Viateur, st., Montreal.	$\frac{3}{4}$ "	30			
" 3	"	50972	E. Pelland, 180 Fairmount ave. W., Mont- real.	$\frac{3}{4}$ "	30			
" 3	"	50973	E. Tessier, 70 Laurier ave. W., Montreal.	$\frac{3}{4}$ "	30		Herron, Leblanc, Ltd.	
" 4	"	50974	Frank D. Hall, St. Agathe de Monts, P.Q.	$\frac{3}{4}$ "	30			
" 4	"	50975	G. Cote, St. Agathe de Monts, P.Q.	$\frac{3}{4}$ "	30		L. Chaput fils & & Co., Ltd.	
" 4	"	50976	T. J. Collins, St. Agathe de Monts, P.Q.	$\frac{3}{4}$ "	30	Herron, Leblanc, Ltd.	Hudon & Orsale Montreal.	
" 7	"	50977	Jas. Graham, 4451 St. Cath. St., West- mount.	$\frac{3}{4}$ "	30			



## SESSIONAL PAPER No. 14

## GROUND WHITE PEPPER.

## RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination	No. of Sample	Remarks and Opinion of the Chief Analyst.
1.52	Pepper tissues, wheat and foreign starches	50961	Adulterated.
0.80	" "	50962	"
1.32	Pepper tissues only	50963	Genuine.
0.94	" "	50964	"
2.00	Pepper tissues, wheat starch and foreign starch	50965	Adulterated.
1.40	Pepper tissues only.....	50966	Genuine.
2.04	" "	50967	"
1.64	" "	50968	"
1.16	" "	50969	"
1.52	" " " " " "	50970	"
1.14	" "	50971	"
1.64	" "	50972	"
1.48	Pepper tissues and foreign starch (probably rice)	50973	Adulterated.
1.60	Pepper tissues, wheat and foreign starches	50974	"
1.24	Pepper tissues only.....	50975	Genuine.
1.96	Pepper tissues, wheat and foreign starch.....	50976	Adulterated.
1.94	" only	50977	Genuine.



4 GEORGE V., A. 1914

## BULLETIN No. 250—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

## DISTRICT OF MONTREAL

1912.	Ground White pepper.	50978	Theo. Rochon, 210 City Hall Ave., Montreal.	$\frac{3}{4}$ lb.	30	.....	Kearney Bros., Montreal.	.....
" 10	"	50979	J. O. Malo, Joliette, P.Q.	$\frac{3}{4}$ "	30	.....	.....	.....
" 11	"	50980	J. Miller, 117 Galt Ave. Verdun, P.Q.	$\frac{3}{4}$ "	30	.....	.....	.....

## DISTRICT OF OTTAWA—

Aug. 30	Ground White Pepper.	50212	Cameron & Downing, Van- kleek Hill, Ont.	$\frac{3}{4}$ lb.	30	Mathewson's Sons, Mont- real.	Manufacturers.	.....
" 31	"	50213	C. A. Farmer & Son, Perth, Ont.	$\frac{3}{4}$ "	30	Pure Gold Mfg. Co., Toronto	"	.....
Sept. 4	"	50214	S. Berger, 510 Bank St., Ot- tawa, Ont.	$\frac{3}{4}$ "	30	Unknown.....	H. N. Bate & Sons, Ottawa.	.....
" 4	"	50215	Geo. Agar, 409 Bronson Ave., Ottawa, Ont.	$\frac{3}{4}$ "	30	"	H. N. Bate & Sons, Ottawa.	.....
" 4	"	50216	H. A. McCagg, 698 Gladstone Ave., Ottawa, Ont.	$\frac{3}{4}$ "	30	"	F. J. Castle Co., Ltd., Ottawa.	.....
" 4	"	50217	Alex. Phillips, Rochester St., Ottawa, Ont.	$\frac{3}{4}$ "	30	"	H. N. Bate & Sons, Ottawa.	.....
" 5	"	50218	J. B. Bedard, Wellington St. Hull, P.Q.	$\frac{3}{4}$ "	30	"	F. J. Castle Co., Ltd., Ottawa.	.....
" 5	"	50219	J. E. Ryan & Co., Welling- ton St., Hull, P.Q.	$\frac{3}{4}$ "	30	C. H. Cochrane & Co., Ot- tawa.	Manufacturers...	.....
" 5	"	50220	Jules Gratton, Wellington St. Hull, P.Q.	$\frac{3}{4}$ "	30	.....	.....	.....
" 6	"	50221	Jas. McDougall, Brockville.	$\frac{3}{4}$ "	30	J. M. Lowes Co., Ltd., Toronto	Manufacturers	.....
" 6	"	50222	F. H. Clifford, Brockville.	$\frac{3}{4}$ "	30	Litster Pure Food Co., To- ronto.	"	.....
" 6	"	50223	J. Culbert, Brockville.	$\frac{3}{4}$ "	30	Pure Gold Mfg. Co., Ltd., To- ronto.	"	.....
" 6	"	50224	A. E. Shaver, Brockville.	$\frac{3}{4}$ "	30	Pure Gold Mfg. Co., Ltd., To- ronto.	"	.....
" 7	"	50225	John Hughes, Prescott.	$\frac{3}{4}$ "	30	J. M. Lowes Co., Toronto.	"	.....



SESSIONAL PAPER No. 14

## GROUND WHITE PEPPER.

## RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample	Remarks and Opinion of the Chief Analyst.
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*Concluded.*

2.68 Pepper tissues only

50078 Genuine.

1.40 " and foreign stone cells in excess.....

50079 Adulterated.

1.54 " .....

50080 Genuine.

J. A. RICKEY, INSPECTOR.

4.64 Pepper tissues only Black Pepper .....

50212 Genuine.

1.13 " "

50213 "

3.76 " and slight excess of foreign stone cells

50214 Doubtful.

1.96 " " " " " "

50215 "

1.94 " and wheat starch

50216 Adulterated.

3.12 " "

50217 "

1.42 " "

50218 "

1.94 " only

50219 Genuine.

1.60 " and wheat starch

50220 Adulterated.

2.00 " only ..

50221 Genuine.

1.74 " " "

50222 "

1.00 " " "

50223 "

3.60 " " "

50224 "

1.50 " " "

50225 "



Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF OTTAWA—

1912.	Ground White Pepper.							
Sept. 7		50226	R. A. Scott & Co., Prescott.	$\frac{3}{4}$ lb	30	C. H. Cochrane Co., Ottawa.	Manufacturers...	
" 11	"	50227	Wm. Miller, Somerset St., Ottawa.	$\frac{3}{4}$ "	30	Unknown.....	Unknown.....	
" 12	"	50228	Major & Hur- teau, 816 Som- erset St., Ot- tawa.	$\frac{3}{4}$ "	30	"	Provost and Al- lard, Ottawa.	
" 12	"	50229	G. H. Hall & Co., Preston St., Ottawa.	$\frac{3}{4}$ "	30	C. H. Cochrane & Co., Ot tawa.	Manufacturers...	
" 16	"	50230	T. R. Davies, Rideau St., Ottawa.	$\frac{3}{4}$ "	30	Unknown.....	H. N. Bate & Sons, Ottawa.	
" 18	"	50231	W. Miskelly, Merrickville.	$\frac{3}{4}$ "	30	"	Geo. Robinson, & Son, King- ston.	

DISTRICT OF KINGSTON—

Sept. 3	Ground White Pepper	50731	J. Gilbert, King- ston.	$\frac{3}{4}$ lb..	30		J. M. Lowes, Toronto.	
" 3	"	50732	J. E. Purdy, Kingston.	$\frac{3}{4}$ "	30		Robertson, Nic- olle Co., King- ston.	
" 3	"	50733	H. T. Tree, Kingston.	$\frac{3}{4}$ "	26	Unknown.	Unknown.....	
" 3	"	50734	J. A. Percy, Kingston.	$\frac{3}{4}$ "	30		Geo. Robertson, & Son, King- ston.	
" 3	"	50735	W. J. Arnill, Kingston.	$\frac{3}{4}$ "	30			
" 4	"	50736	H. M. Stover, Kingston	$\frac{3}{4}$ "	30		A. Maclean, Kingston	
" 4	"	50737	W J Lee, King- ston.	$\frac{3}{4}$ "	30		W G Craig Co Kingston.	
" 4	"	50738	P. A. Haffner, Kingston.	$\frac{3}{4}$ "	30		J. M. Lowes, To- ronto.	
" 4	"	50739	J. Cullen, King- ston.	$\frac{3}{4}$ "	30		A. Maclean, Kingston.	
" 9	"	50740	R. Elvins, Belle- ville.	$\frac{3}{4}$ "	23		Dalton Bros. Toronto.	
" 9	"	50741	J. B. Harker, Belleville.	$\frac{3}{4}$ "	30		White Swan Co. Toronto.	
" 9	"	50742	George Boyle, Belleville.	$\frac{3}{4}$ "	30		Todhunter & Mitchell, To- ronto.	
" 9	"	50743	J. H. P. Young, Belleville.	$\frac{3}{4}$ "	30		Pure Gold Co., Toronto.	
" 10	"	50744	T. McIntosh, Cobourg..	$\frac{3}{4}$ "	30		Todhunter & Mitchell, To- ronto.	



SESSIONAL PAPER No. 14

## GROUND WHITE PEPPER.

## RESULTS OF ANALYSIS

Total Ash.	Microscopical Examination	No. of Sample	Remarks and Opinion of the Chief Analyst.
<i>Concluded</i>			
1.50	Pepper tissues only	50226	Genuine.
2.90	" and wheat starch	50227	Adulterated.
3.50	" and extracted tissue starch	50228	"
1.70	Pepper tissues only	50229	Genuine
1.50	" and wheat starch	50230	Adulterated
3.60	" only	50231	Genuine.

## JAS. HOGAN, INSPECTOR.

1.50	Pepper tissues only	50731	Genuine.
1.50	" and wheat starch	50732	Adulterated.
2.92	" only	50733	Genuine.
2.02	" and wheat starch	50734	Adulterated.
1.84	" " "	50735	"
1.30	" only	50736	Genuine.
1.70	" and wheat starch	50737	Adulterated
1.20	" only.....	50738	Genuine
1.50	" "	50739	"
1.60	" and wheat starch	50740	Adulterated
3.00	" only	50741	Genuine.
1.42	" "	50742	"
1.22	" "	50743	"
1.10	" "	50744	"



Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF KINGSTON—

1912	Ground White pepper.							
Sept. 10		50746	H. Crozier, Co- bourg.	$\frac{3}{4}$ lb	30		White Swan Co. Toronto.	
" 10	"	50747	The Thompson- Macdonald Co. Cobourg.	$\frac{3}{4}$ "	30		White Swan Co. Toronto.	
" 10	"	50748	E. Guillet, Co- bourg.	$\frac{3}{4}$ "	30		W. H. Ewing Co., Montreal.	
" 10	"	50749	F. Rosevear, Port Hope.	$\frac{3}{4}$ "	30			
" 10	"	50750	F. H. Brown, G Port Hope.	$\frac{3}{4}$ "	30	Unknown.....	Unknown	
" 11	"	50791	W. J. Roulty, Peterboro.	$\frac{3}{4}$ "	30		Dalton Bros., Toronto.	

DISTRICT OF TORONTO—

Sept. 13	Ground White Pepper.	51401	M. Bellinger, 623 Gerrard St., East Toronto.	$\frac{3}{4}$ lb...	30		Medland Bros., Toronto.	
" 13	"	51402	F. B. Ulling, 1020 Gerrard St., East Tor- onto.	$\frac{3}{4}$ "	30		Pure Gold Mfg. Co., Ltd., Toronto.	
" 13	"	51403	Rudge & Phil- lips, 225 Au- gusta Ave., Toronto.	$\frac{3}{4}$ "	30		H. Pechardt & Co., Toronto.	
" 16	"	51404	W. J. Snell, 2165 Queen St., East Toronto.	$\frac{3}{4}$ "	27		Parsons, Brown & Co., Toron- to.	
" 17	"	51405	Wm. Horner, 1001 Bloor St., West To- ronto.	$\frac{3}{4}$ "	30			
" 17	"	51406	Smith & Co., 94 Geary Ave. Toronto.	$\frac{3}{4}$ "	30		Davidson & Hay Co., Ltd., Toronto.	
" 17	"	51407	J. Anderson, 1584 Queen St., West Toronto.	$\frac{3}{4}$ "	30		Dalton Bros., Toronto.	
" 17	"	51408	F. A. Drurie, 206 Argyle St., Toronto.	$\frac{3}{4}$ "	27		White Swan S & C., Ltd., To- ronto.	Sample taken from original tin labelled: Absolu'ly pure
" 19	"	51409	Wm. Scanlon, 706 Kingston Road, East Toronto.	$\frac{3}{4}$ "	30		Unknown.....	
" 19	"	51410	Thos. Earls, 933 Lansdowne Ave., Toronto	$\frac{3}{4}$ "	30		Scott Bros., 190 King St. E., Toronto.	
" 20	"	51411	A. Murray, Aur- ora.	$\frac{3}{4}$ "	25		Thos. Kinneor, & Co., Toron- to.	
" 20	"	51412	G. A. Cook, Newmarket..	$\frac{3}{4}$ "	30		Eby Blain Ltd., Toronto.	Sample taken from original tin labelled: Pure white pepper.



SESSIONAL PAPER No. 14

## GROUND WHITE PEPPER.

## RESULTS OF ANALYSIS

Total Ash.	Microscopical Examination	No. of Sample.	Remarks and Opinion of the Chief Analyst.
<i>Continued.</i>			
2.70	Pepper tissues only.....	50746	Genuine.
2.96	"	50747	"
1.60	"	50748	"
1.30	" and wheat starch	50749	Adulterated.
1.02	" only	50750	Genuine.
1.60	" and wheat starch	50791	Adulterated.

H. J. DAGLER, INSPECTOR

2.40	Pepper tissues only.....	51401	Genuine.
2.50	"	51402	"
1.70	"	51403	"
1.40	"	51404	"
1.10	"	51405	"
1.20	"	51406	"
1.32	"	51407	"
1.34	"	51408	"
1.10	"	51409	"
1.70	"	51410	"
1.52	"	51411	"
1.44	"	51412	"



Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF TORONTO—

1912.								
Oct.	1	Ground White pepper.	51413	N. Hubbert, Burlington.	$\frac{1}{4}$ lb.	20	.....	Macpherson, Glassco & Co., Hamilton.
"	1	"	51414	P. & R. Laing, Dundas.	$\frac{1}{4}$ "	30	.....	McLarens Ltd., Hamilton.
"	2	"	51415	M. Burkholder, 172 King Wil- liam St., Hamilton.	$\frac{1}{4}$ "	30	.....	Lumsden Bros., Hamilton.
"	2	"	51416	E. C. Jamieson, Wilson & Fair- leigh St., Hamilton.	$\frac{1}{4}$ "	30	.....	McLarens Ltd., Hamilton.
"	2	"	51417	G. W. Mitson, Loteridge St., Hamilton.	$\frac{1}{4}$ "	23	.....	Unknown.....
"	2	"	51418	S. Cheeseman, 644 King St. West, Hamil- ton.	$\frac{1}{4}$ "	30	.....	" .....
"	2	"	51419	M. B. Hibbard, Main & Locke Sts., Hamil- ton.	$\frac{1}{4}$ "	30	.....	Imp. cocoa & sp. Co., Hamil- ton.
"	3	"	51420	Wm. P. Keating 337 York St., Hamilton.	$\frac{1}{4}$ "	30	.....	Lumsden Bros., Hamilton.

DISTRICT OF WINDSOR—

Sept.	19	Ground White Pepper.	48102	R. Baker, Lon- don East.	$\frac{1}{4}$ lb.	30	.....	Unknown. ....
"	19	"	48104	G. H. Mennill, London East.	$\frac{1}{4}$ "	30	.....	I.X.L. Spice & Coffee Co., London.
"	19	"	48105	Chas. Depper, London East.	$\frac{1}{4}$ "	23	.....	I.X.L. Spice & Coffee Co., London.
"	20	"	48108	S. M. Fleet, In- gersoll.	$\frac{1}{4}$ "	30	.....	Gorman-Eckert Co., London.
"	20	"	48110	P. J. Sherry, In- gersoll.	$\frac{1}{4}$ "	23	E. Adams & Co., London.	.....
"	20	"	48112	H. W. Healy, Ingersoll.	$\frac{1}{4}$ "	25	Unknown.....	Unknown.....
"	20	"	48113	Chas. H. Craw- ford, Ingersoll	$\frac{1}{4}$ "	30	Imp.coc.& spice Co., Hamilton	.....
"	20	"	48116	Buchanan Bros., Ingersoll.	$\frac{1}{4}$ "	30	.....	Gorman Eckert Co., London.
"	20	"	48117	Robt. Stewart, Ingersoll.	$\frac{1}{4}$ "	38	.....	F. F. Dalley, Hamilton.
"	20	"	48119	McLeod & Mc- Bain, Ingersoll	$\frac{1}{4}$ "	30	.....	Gorman-Eckert Co., London.
"	20	"	48122	W. I. Hogarth, Ingersoll.	$\frac{1}{4}$ "	23	Unknown. ....	Unknown.....

"Forest City"  
Pure Spices.  
Labelle d Dal-  
ley's Pure  
White Pepper.  
"Crest" Brand



SESSIONAL PAPER No. 14

## GROUND WHITE PEPPER.

RESULTS OF ANALYSIS			Remarks and Opn. of the Chief Analyst.
Total Ash.	Microscopical Examination.	No. of Sample.	
<i>Concluded.</i>			
3.90	Pepper tissues only	5141	Genuine.
1.80	" "	51414	"
2.50	" "	51415	"
1.00	" "	51416	"
2.10	" and foreign stone cells.....	51417	Adulterated
2.40	" only.	51418	Genuine
2.20	" and foreign stone cells	51419	Adulterated
2.30	" only.	51420	Genuine
JNO: TALBOT, INSPECTOR			
1.20	Pepper tissues only	48102	Genuine.
1.30	" "	48104	"
1.30	" "	48106	"
1.10	" "	48108	"
2.20	" "	48110	"
2.74	" and excess of foreign stone cells	48112	Adulterated
1.80	" and slight excess of foreign stone cells	48113	Doubtful
1.20	" only.....	48116	Genuine.
1.60	" "	48117	"
1.44	" "	48119	"
1.58	" "	48122	"



Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	COST.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF WINDSOR—

1912.	Ground White pepper.							
Sept. 21		48124	C. W. Reynolds, Pottersburg...	$\frac{3}{4}$ lb.	30		Gorman-Eckert Co., London.	
" 21	"	48125	Gorman Eckert Co., London.	$\frac{3}{4}$ "	25		Gorman Eckert Co., London.	"Forest City" Pure White Pepper.
" 21	"	48126	I. X. L. Spice & Coffee Co., London.	$\frac{3}{4}$ "	20		I. X. L. Spice & Coffee Co., London.	"Sweetheart" Pure White Pepper.
" 12	"	48288	White & Co., Woodstock, Ont.	$\frac{3}{4}$ "	30		White Swan S. & C. Co., To- ronto.	
" 12	"	48290	Wm. Pullen, Woodstock, Ont.	$\frac{3}{4}$ "	30		Unknown.....	
" 12	"	48293	Lewis & Co., Woodstock, Ont.	$\frac{1}{4}$ "	30		Todhunter & Mitchell, To- ronto.	
" 19	"	48295	W. A. Munn, St. Thomas.	$\frac{3}{4}$ "	30		Gorman & Eck- ert, London.	
" 19	"	48298	Ideal Co-op. As- sociation, St. Thomas.	$\frac{3}{4}$ "	30	Unknown.	Unknown.	
" 19	"	48299	Moylan & Moy- lan.	$\frac{3}{4}$ "	30		Gorman Eckert Co., London.	

DISTRICT OF MANITOBA—

Sept. 19	Ground White Pepper.	48676	C. A. Whitman, Emerson.	$\frac{3}{4}$ lb.	20	Unknown.....	Unknown.....	
" 20	"	48677	Campbell Bros. & Wilson, Winnipeg.	$\frac{3}{4}$ "	Nil.	Vendors		
" 20	"	48678	The Dyson Co., Winnipeg.	$\frac{3}{4}$ "	"	"		
" 20	"	48679	The White Star Mfg. Co., Win- nipeg.	$\frac{3}{4}$ "	"	"		
" 20	"	48680	The Gold Stan- dard Mfg. Co., Winnipeg.	$\frac{3}{4}$ "	"	"		
" 23	"	48681	P. Nelson, Win- nipeg.	$\frac{3}{4}$ "	30			
" 23	"	48682	W. H. Morgan, Winnipeg.	$\frac{3}{4}$ "	30		The Codville Co., Winnipeg.	
" 23	"	48683	Western Mercan- tile Co., Win- nipeg.	$\frac{3}{4}$ "	30			
" 24	"	48684	P. J. Foley & Co., Stone- wall.	$\frac{3}{4}$ "	30		The Jobin Mar- rin Co., Win- nipeg.	
" 24	"	48685	G. Montgomery Stonewall.	$\frac{3}{4}$ "	30			
" 24	"	48686	I. Genser, Stone- wall.	$\frac{3}{4}$ "	30		Campbell Bros. & Wilson Co., Winnipeg.	



SESSIONAL PAPER No. 14

## GROUND WHITE PEPPER.

## RESULTS OF ANALYSIS

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
<i>Continued.</i>			
1.24	Pepper (white) only	48124	Genuine.
1.20	"	48125	"
1.30	"	48126	"
2.70	"	48128	"
1.26	"	48129	"
1.00	"	48129	"
1.24	"	48137	"
1.60	" Black Pepper	48298	"
1.50	"	48299	"

## A. C. LARIVIERE, INSPECTOR.

1.42	Pepper (white) only	48676	Genuine.
1.20	"	48677	"
1.56	"	48678	"
1.80	"	48679	"
3.00	"	48680	"
2.04	" wheat starch and other foreign starches.....	48681	Adulterated.
3.50	"	48682	Genuine.
1.52	"	48683	"
1.90	"	48684	Adulterated.
1.12	" only	48685	Genuine.
1.30	"	48686	"



Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF MANITOBA—

1912	Ground White pepper.							
Sept. 25		48687	C. Finkleman, Selkirk.	$\frac{3}{4}$ lb..	25			
" 25	"	48688	W. Robinson & Co., Ltd., Sel- kirk.	$\frac{3}{4}$ "	30			
" 25	"	48689	Shepard, Peers Co., Selkirk.	$\frac{3}{4}$ "	30			
" 25	"	48690	W. Epstein, Sel- kirk.	$\frac{3}{4}$ "	30			
" 26	"	48691	I. Turkletop, Beausejour.	$\frac{3}{4}$ "	30			
Oct. 1	"	48692	D. G. Macdo- nald, Portage La Prairie.	$\frac{3}{4}$ "	30		The Jobin Mar- rin Co., Ltd., Winnipeg.	
" 1	"	48693	O'Reilly & Co., Portage La Prairie.	$\frac{3}{4}$ "	30			
" 2	"	48694	Smith & Burton Brandon.	$\frac{3}{4}$ "	30			
" 3	"	48695	Brebber & Tillp Oak Lake.	$\frac{3}{4}$ "	30		Campbell Bros. & Wilson, Win- nipeg.	

DISTRICT OF NELSON—

Sept. 3	Ground White Pepper.	49690	Bell Trading Co., Nelson, B.C.	$\frac{3}{4}$ lb..	30	W. Braid & Co., Vancouver, B.C.		
" 6	"	49702	G.B. Armstrong Merritt, B.C.	$\frac{3}{4}$ "	30	Kelly-Douglas Co., Vancou- ver, B.C.		
" 6	"	49712	Merritt Merc., Merritt, B.C.	$\frac{3}{4}$ "	30	W. Braid & Co., Vancouver, B.C.		
" 6	"	49713	Merritt Ind. & Co-op. Soc., Merritt, B.C.	$\frac{3}{4}$ "	20	W. K. Malkin, & Co., Van- couver, B.C.		
" 9	"	49720	L. C. Masson, Revelstoke, B.C.	$\frac{3}{4}$ "	30	Kelly-Douglas Co., Vancou- ver, B.C.		
" 9	"	49725	Bourne Bros., Revelstoke, B.C.	$\frac{3}{4}$ "	40	Empress Mfg. Co., Vancou- ver, B.C.		
" 9	"	49734	D. Gallicano, Revelstoke, B.C.	$\frac{3}{4}$ "	30	Kelly-Douglas Co., Vancou- ver, B.C.		
" 10	"	49737	C. B. Hume & Co., Revel- stoke, B.C.	$\frac{3}{4}$ "	40	Empress Mfg., Co., Vancou- ver, B.C.		
" 10	"	49742	J. Guiletto, Revelstoke, B.C.	$\frac{3}{4}$ "	30	Kelly-Douglas Co., Vancou- ver, B.C.		
" 23	"	49746	C. A. Warren, Golden, B.C.	$\frac{3}{4}$ "	30	W. H. Malkin & Co., Vancou- ver, B.C.		



## SESSIONAL PAPER No. 14

## GROUND WHITE PEPPER.

## RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Samples.	Remarks and Opinion of the Chief Analyst.
<i>Continued.</i>			
2.16	Pepper tissues only	48687	Genuine.
1.20	" and wheat starch	48688	Adulterated.
1.08	" only	48689	Genuine.
1.08	" "	48690	"
4.10	" " Black pepper	48691	"
1.40	" and wheat starch	48692	Adulterated.
3.41	" only	48693	Genuine.
1.32	" "	48694	"
1.18	" "	48695	"

## THOS. PARKER, INSPECTOR.

1.10	Pepper tissues only	49690	Genuine.
1.70	Pepper tissues and wheat starch	49702	Adulterated.
1.04	Pepper tissues only	49712	Genuine.
1.10	" "	49713	"
1.30	" "	49720	"
1.48	" "	49725	"
1.54	Pepper tissues and wheat starch	49734	Adulterated.
1.22	Pepper tissues only	49737	Genuine.
1.34	Pepper tissues and wheat starch	49742	Adulterated.
1.50	Pepper tissues only	49746	Genuine.



Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NELSON—

1912.	Ground White pepper.							
Sept. 23		49753	H. G. D. Par- son, Ltd., Gol- den, B.C.	3 tins.	30	Empress Mfg. Co., Vancou- ver, B.C.		
" 23	"	49760	C. R. Lumber Co., Golden, B.C.	$\frac{3}{4}$ lb..	35	W. Braid & Co., Vancouver, B.C.		
" 23	"	49767	Rolston & Mit- chell, Golden, B.C.	3 tins.	30	Empress Mfg. Co., Vancou- ver, B.C.		
" 24	"	49769	Field Trading Co., Field, B.C.	$\frac{3}{4}$ "	30	Campbell, Wil- son & Horne, Calgary.		
" 25	"	49772	C. B. Hume & Co., Arrow- head, B.C.	$\frac{3}{4}$ "	30	Empress Mfg. Co., Vancou- ver, B.C.		
" 25	"	49777	Reid & Young, Arrowhead, B.C.	$\frac{3}{4}$ "	30	Kelly-Douglas Co., Vancou- ver, B.C.		
Oct. 1	"	49786	Citizens' Co-op. Ass'n, Nelson, B.C.	$\frac{3}{4}$ "	30	Empress Mfg. Co., Vancou- ver, B.C.		
" 1	"	49787	J. A. Irving, Nelson, B.C.	$\frac{3}{4}$ "	30	Empress Mfg. Co., Vancou- ver, B.C.		
" 1	"	49790	Hudsons Bay Co., Nelson, B.C.	$\frac{3}{4}$ "	30	Vendors.....		
" 1	"	49791	Christie & Ben- son, Nelson, B.C.	$\frac{3}{4}$ "	40	Empress Mfg. Co., Vancou- ver, B.C.		

DISTRICT OF VANCOUVER—

Sept. 16	Ground White Pepper..	38359	Smythe & Richards, Vancouver, B.C.	$\frac{3}{4}$ lb..	30	Wm. Braid &.. Co., Vancou- ver, B.C.		
" 16	"	38360	Walford & Ro- ney, Granville St., Vancou- ver, B.C.	$\frac{3}{4}$ "	30	Wm. Braid & Co., Vancou- ver, B.C.		
" 16	"	38361	R. Shilling, Sey- mour & Helm- ken Sts., Van- couver, B.C.	$\frac{3}{4}$ "	25	Empress Mfg. Co., Vancou- ver, B.C.		
" 16	"	38362	W. H. Walsh & Co., Ltd., Sey- mour & Davie Vancouver, B.C.	$\frac{3}{4}$ "	30	Wm. Braid & Co., Vancou- ver, B.C.		
" 16	"	38363	Halpins' Gro- cery, 116 Gran- ville St., Van- couver, B.C.	$\frac{3}{4}$ "	30	Empress Mfg. Co., Vancou- ver, B.C.		



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GROUND WHITE PEPPER.

RESULTS OF ANALYSIS.			Remarks and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.	No. of Sample.	
<i>Continued.</i>			
1-24	Pepper tissues only	49765	Genuine.
1-18	" "	49766	"
1-18	" "	49767	"
1-40	" "	49769	"
1-56	" "	49772	"
1-26	" "	49775	"
1-02	" "	49786	"
1-22	" "	49787	"
1-32	Pepper tissues and benzene extract	49790	Adulterated.
1-20	Pepper tissues only	49791	Genuine.

J. F. POWER, INSPECTOR

1-10	Pepper tissues only.	38359	Genuine.
1-06	" "	38360	"
1-02	" "	38361	"
1-30	" "	38362	"
1-24	" "	38363	"



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BULLETIN No. 250—

Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	COST.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF VANCOUVER—								
1912 Sept. 16	Ground White pepper.	38364	Vancouver Gro- cery Co., Nel- son & Gran- ville Sts., Van- couver, B.C.	$\frac{3}{4}$ lb.	30	.....		
" 17	"	38365	A. C. Bartig, 8th Ave. & Granville St., Vancouver, B.C.	$\frac{3}{4}$ "	35	Kelly, Douglas & Co., Van- couver, B.C.		
" 17	"	38366	A. MacFarlane, 1469 Broad- way W., Van- couver, B.C.	$\frac{3}{4}$ "	30	Kelly, Douglas & Co., Van- couver, B.C.		
" 17	"	38367	White, Thomp- son Co., South Granville St., Vancouver, B.C.	$\frac{3}{4}$ "	30	Empress Mfg. Co., Vancou- ver, B.C.		
" 17	"	38368	London Grocery Co., Sixth Ave. & Granville St., Vancouver B.C.	$\frac{3}{4}$ "	30	Kelly, Douglas & Co., Van- couver, B.C.		
" 17	"	38369	Gruchy & Car- law, Fifth ave. & Grainville, Vancouver, B.C.	"	30	Empress Mfg. Co., Vancou- ver, B.C.		
" 18	"	38370	Turners Grocery Pender & Hornby Sts. Vancouver, B.C.	"	25	Kelly Douglas & Co., Van- couver B.C.		
" 18	"	38371	A. & C. Grocery 909 Georgia St. Vancouver, B.C.	3 tins	30	Kelly Douglas & Co., Van- couver, B.C.		'Nabob,' Brand contains noth- ing but spice of finest quality.
" 18	"	38372	McTaggart & Co., Robson & Granville Sts., Van- couver, B.C.	$\frac{3}{4}$ lb.	30	Kelly Douglas & Co., Van- couver, B.C.		
" 18	"	38373	Hudsons Bay Co. Vancouver B.C.	"	30	Wm. Braid & Co., Vancouver B.C.		
" 18	"	38374	Mills & McAdam 2039 4th Ave. W. Vancouver B.C.	"	30	Unknown.	Hudsons Bay Co.	
" 18	"	38375	J. S. Hirst 1944 Maple St. Vancouver, B.C.	3 tins	30	W. H. Malkin Co. Vancouver B.C.		
" 18	"	38376	Cook, Bros. 1619 4th Ave. W., Vancouver, B.C.	$\frac{1}{4}$ lb.	20	W. H. Malkin Co. Van- couver, B.C.		



SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

RESULTS OF ANALYSIS

			Remarks and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination	No. of Sample.	

Continued.

1.24	Pepper (assumed to be genuine) (probably prize)	38364	Adulterated.
1.06	Pepper tissues only.....	38365	Genuine.
1.14	"	38366	"
1.18	"	38367	"
0.86	"	38368	"
1.40	"	38369	"
1.04	"	38370	"
1.22	"	38371	"
1.20	"	38372	"
1.60	"	38373	"
1.12	"	38374	"
0.88	"	38375	"
1.24	"	38376	"



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## BULLETIN No. 250—

Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	Cost.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR:		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF VANCOUVER—								
1912 Oct. 18	Ground White pepper.	38377	David Spencer Ltd., Van- couver, B.C.	1 lb	30	Kelly Douglas & Co., Van- couver, B.C.		
" 18	"	38378	H. A. Edgett C Ltd., Van- couver B.C.	"	30	Wm. Braid, & Co., Van- couver, B.C.		

## DISTRICT OF VICTORIA—

Sept. 10	Ground White Pepper.	49218	Windsor Gro- Co., 817 Govt. st., Victoria, B.C.	$\frac{3}{4}$ lb	35		Pioneer Coffee & Spice Mills, Victoria, B.C.	
" 11	"	49219	The West End Grocery Co., Ltd., 1002 Govt. St., Victoria, B.C.	$\frac{3}{4}$ "	30		Wm. Braid & Co., Vancouver, B.C.	
" 12	"	49220	Copas & Young, 631 Fort st., Victoria, B.C.	$\frac{3}{4}$ "	20		Wm. Braid & Co., Vancouver, B.C.	
" 16	"	49221	Acton Bros., 1317 Douglas st., Victoria, B.C.	$\frac{3}{4}$ "	40		Pioneer Coffee & Spice Mills, Victoria, B.C.	
" 16	"	49222	H. & K. Grocery, 1425 Douglas st., Victoria, B.C.	$\frac{3}{4}$ "	30		Pioneer Coffee & Spice Mills, Victoria, B.C.	
" 18	"	49223	D. H. Ross & Co., 1317 Govt. st., Victoria, B.C.	$\frac{3}{4}$ "	40		Wm. Braid & Co., Vancouver, B.C.	
" 19	"	49224	Harrison & McDonald, 1218 Douglas st., Victoria, B.C.	$\frac{3}{4}$ "	30		Empress Mfg. Co., Vancouver, B.C.	
" 20	"	49225	F. E. Plummer, 1118 Quadra st., Victoria, B.C.	$\frac{3}{4}$ "	30		Empress Mfg. Co., Vancouver, B.C.	
" 24	"	49226	E. G. Bailey, 758 Fort st., Victoria, B.C.	$\frac{3}{4}$ "	40		Empress Mfg. Co., Vancouver, B.C.	
" 25	"	49227	Erskine & Co., 861 Johnston st., Victoria, B.C.	$\frac{3}{4}$ "	30		R. P. Rithet & Co., Victoria, B.C.	
Oct. 15	"	49241	Henry W. Driver, 856 Yates st., Victoria, B.C.	$\frac{3}{4}$ "	25		W. J. Jameson, Coffee Co., Vancouver, B. C.	
" 15	"	49242	W. A. Jamieson Coffee Co., 754 Broughton st., Victoria, B.C.	$\frac{3}{4}$ "	30		Dunn & Co., Hamilton, Ont.	



SESSIONAL PAPER No. 14

## GROUND WHITE PEPPER.

## RESULTS OF ANALYSIS.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
<i>Continued</i>			
1-00	Pepper tissues only	38477	Genuine.
1-10	" "	38478	"

D. O'SULLIVAN, INSPECTOR.

1-34	Pepper tissues only	49218	Genuine.
1-12	" "	49219	"
1-00	" "	49220	"
1-06	" "	49221	"
1-10	" "	49222	"
1-16	" "	49223	"
1-20	" "	49224	"
1-06	" "	49225	"
1-12	" "	49226	"
1-04	" "	49227	"
1-04	" "	49241	"
1-20	" "	49242	"



Date of Collection.	Nature of Sample.	No. of Sam- ple.	Name and Address of Vendor.	COST.		NAME AND ADDRESS OF MANUFACTURER OR FURNISHER AS GIVEN BY THE VENDOR.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VICTORIA—

1912	Ground White pepper.							
Oct. 17		49243	H. Smith, View st., Victoria, B.C.	4 $\frac{3}{4}$ lb	30		Pioneer Coffee & Spice Mills, Victoria, B.C.	
" 17	"	49244	H. O. Kirkham, 741 Fort st., Victoria, B.C.	"	30		Kelly Douglas & Co., Ltd., Vancouver, B.C.	
" 18	"	49245	Woods & White, 1309 Glad- stone ave., Victoria, B.C.	"	30		Pioneer Coffee & Spice Mills, Victoria, B.C.	
" 18	"	49246	J. Renouf, Glad- stone & Stan- ley ave., Vic- toria, B.C.	"	30		Empress Mfg. Co., Vancou- ver, B.C.	
" 18	"	49247	E. B. Jones, 1800 Cook st., Vic- toria, B.C.	"	30		Kelly Douglas & Co., Ltd., Vancouver, B.C.	
" 18	"	49248	Charles Rich- ards, Cook & Mears sts., Victoria, B.C.	"	30		Pioneer Coffee & Spice Mills, Victoria, B.C.	
" 18	"	49249	Linden Grocery, Linden ave. & May st., Vic- toria, B.C.	"	40		Empress Mfg. Co., Victoria, Vancouver, B.C.	
" 18	"	49250	Pioneer Coffee & Spice Mills, 641 Pembroke st., Victoria, B.C.	"	20	Vendors		







## APPENDIX O.

## BULLETIN No. 251—GROUND CINNAMON AND CASSIA.

OTTAWA, March 5, 1913.

WM. HIMSWORTH, Esq.,  
Acting Deputy Minister of Inland Revenue.

SIR,—I beg to submit to you herewith a report upon 250 samples purchased throughout Canada in September and October of last year, as Cinnamon and Cassia. One hundred and thirty-eight (138) samples were sold as Cinnamon and one hundred and twelve (112) as Cassia.

The last inspection of these articles was made in November and December of 1906, and reported as Bulletin No. 138.

The introductory remarks there published may be repeated here, as fully descriptive of what is known regarding Cinnamon and Cassia in commerce.

*Cinnamon* and *Cassia* are the dry barks of trees which belong to the same botanical genus, *Cinnamomum*. Cinnamon is the bark of *C. Zeylanicum*, chiefly grown in Ceylon and the East Indies; Cassia is the bark of *C. Cassia*, chiefly grown in China and India. The former bark is thinner, lighter in colour and exists (commercially) in smaller rolls than Cassia bark. It is sufficiently easy to distinguish the two articles, in the unground state; and there is a considerable difference in price between whole cinnamon and whole cassia. The botanical elements of the two are, however, practically identical; and, in the finely ground state, it becomes a difficult, if not an impossible thing, to discriminate between them. The darker colour of Cassia is almost the only distinctive character that remains.

Whether cassia is inferior to cinnamon for flavouring purposes, in cookery, is an open question. The general impression is that cinnamon is preferable. Its higher price is doubtless due to this preference. At the same time it is certain that much, if not most, of the ground cinnamon of commerce, is really ground cassia.

Several grinders distinctly label their goods with the word *Cassia*; and it is probable that the same spicemen put on the market a higher priced article under the name *Cinnamon*; but of this I have no conclusive proof. It is however quite certain that the spice in question is known to most domestic users as *Cinnamon*; while the term *Cassia* conveys a very vague meaning, or no meaning whatever. Throughout Quebec the article known as *Cannelle*, which means cinnamon as distinguished from cassia, to which belongs the term *Casse*, seldom mentioned except as a drug.

Under these circumstances, it will be seen that a discrimination between cinnamon and cassia, as spices, is difficult to maintain. It is open to question how far we may take the darker colour of cassia, as evidence of its presence.



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The difficulty of distinguishing between cinnamon and cassia, in the ground state, is recognized by the Committee of Standards at Washington, as shown by the following definitions, proclaimed as legal for the United States in June, 1906:

*Cinnamon* is the dried bark of any species of the genus *Cinnamomum*, from which the outer layers may or may not have been removed.

*True Cinnamon* is the dried inner bark of *Cinnamomum Zeylanicum*, Breyne.

*Cassia* is the dried bark of various species of *Cinnamomum*, other than *Cinnamomum Zeylanicum*, from which the outer layers may or may not have been removed.

*Cassia buds* are the dried, immature fruit of species of *Cinnamomum*.

*Ground Cinnamon*, *Ground Cassia*, is a powder consisting of Cinnamon, Cassia or Cassia buds, or a mixture of these spices, and contains not more than six (6) per cent of total ash, and not more than two (2) per cent of sand.

So far as admixture of Cassia is concerned, I do not think that the present state of our knowledge justifies me in pronouncing it an adulteration of the spice known as Ground Cinnamon. This aspect of the matter must be left open for the present.

The results of the present inspection are as follows:—

Apparently genuine .....	198
Adulterated .....	12
Doubtful .....	14
Samples lost or collected by mistake .....	4
Ash abnormal .....	22
	<hr/> 250

Adulteration consists in the presence of matters foreign to Cinnamon or Cassia, and is declared under Section 3 (a) and (b) of the Adulteration Act.

When the amount of foreign matter is inconsiderable, and possibly due to mistake, or unintentional carelessness I have used the word doubtful.

Abnormal ash in the absence of legal Standards for the article, cannot be declared as adulteration.

It will be necessary to establish standards for Cinnamon and Cassia, particularly as regards ash content, and this matter will be kept in view by your Advisory Board.

The report now furnished will enable us to arrive at a decision.

I beg to recommend publication of this report as Bulletin No. 251.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,

(Chief Analyst)



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BULLETIN No. 251—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1912.							
Sept. 13	Ground Cinnamon.	46861	Jno. P. Mott & Co., Halifax, N.S.	$\frac{3}{4}$ lb.	Nli	Vendors	
" 13	"	46862	Nat. Drug and Chem. Co., Halifax, N.S.	$\frac{1}{4}$ "	25	"	
" 16	"	46863	Morrison & Williams, Halifax, N.S.	$\frac{3}{4}$ "	22	D. A. Morrison, Amherst, N.S.	Manufacturer.
" 17	"	46864	Jas. Scott & Co., Halifax, N.S.	$\frac{3}{4}$ "	30	W. H. Schwartz & Sons, Halifax, N.S.	Manufacturers.
" 17	"	46865	Bauld Bros., Ltd., Halifax, N.S.	$\frac{1}{4}$ "	24	"	"
" 19	"	46866	W. H. Schwartz & Sons, Halifax, N.S.	$\frac{3}{4}$ "	20	Vendors	
" 19	"	46867	Chisholm & Co., Halifax, N.S.	$\frac{1}{4}$ "	19	J. P. Mott & Co., Halifax, N.S.	Manufacturers
" 19	"	46868	Dillon Bros., Halifax, N.S.	$\frac{3}{4}$ "	15	"	"
" 24	"	46969	Yerxas, Yarmouth, N.S.	$\frac{3}{4}$ "	30	White Swan Co., Toronto, Ont.	"
Oct. 8	"	46870	G. A. Orman, Dartmouth, N.S.	$\frac{3}{4}$ "	30	Unknown	

DISTRICT OF PRINCE EDWARD ISLAND—

Sept. 6	Ground Cinnamon.	46277	R. T. Maddigan & Co., Charl'town, P.E.I.	$\frac{3}{4}$ lb.	30	Jno. P. Mott & Co., Halifax, N.S.	
" 10	"	46278	The 2 Maes, Charlottetown, P.E.I.	$\frac{3}{4}$ "	70	Lymans Ltd., Montreal.	
" 10	"	46279	The McKinnon Drug Co., Charlottetown, P.E.I.	$\frac{1}{4}$ "	48	Unknown	
" 12	"	46280	A. J. Warren, Charlottetown, P.E.I.	$\frac{3}{4}$ "	24		J. A. Farquharson, Ch'town, P.E.I.
" 12	"	46281	W. W. Walker, Charlottetown, P.E.I.	$\frac{3}{4}$ "	30		Carvell Bros., Ch'town, P.E.I.
" 13	"	46282	J. G. Jamieson, Charlottetown, P.E.I.	$\frac{3}{4}$ "	90	Lymans Ltd., Montreal.	
" 17	"	46283	Geo. Forbes, Vernon River Bridge, P.E.I.	$\frac{3}{4}$ "	24	Unknown	
" 1	"	46284	Gourlies Ltd., Summerside, P.E.I.	$\frac{3}{4}$ "	30	Nat. Drug Co., Halifax, N.S.	
" 1	"	46285	Sinclair & Stewart, Summerside, P.E.I.	$\frac{3}{4}$ "	30	Unknown	
" 3	"	46286	J. J. Hughes, Souris, P.E.I.	$\frac{1}{4}$ "	30	Dearborn & Co., St. John, N.B.	



SESSIONAL PAPER No. 14  
GROUND CINNAMON.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analyses			Remarks and Observations of the Chief Analyst.
	Total Ash	Ash Insoluble in H <sub>2</sub> O	Microscopical Examination	
	1.47	1.03	No foreign tissues	46861 Apparently genuine.
	3.73	0.29		46862
	8.13	4.00		46863 Low and faintly colored high.
	3.74	1.02		46864 Apparently genuine.
	3.40	0.29		46865
	3.41	0.06		46866
	4.74	0.40		46867
	4.98	0.60		46868
	3.39	0.72		46869
	3.46	0.96		46870

WM. A. WEEKS, INSPECTOR.

After sample was purchased and labelled as Cinnamon, vendor said it was "Cassia Cinnamon."	4.77	0.75	No foreign tissues	46277 Apparently genuine.
	7.95	4.16	Some outer bark tissues	46278 Low and faintly colored high.
	3.54	1.84	No foreign tissues	46279 Apparently genuine.
	3.04	0.64		46280
	1.45	0.79		46281
	3.98	1.34		46282
	3.44	1.12		46283
	4.53	1.29		46284
	5.08	1.95	Some outer bark tissues	46285
	3.59	0.18	No foreign tissues	46286



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NEW BRUNSWICK—

1912.							
Sépt.	4	Ground Cinnamon	50450 Dearborn & Co., St. John, N.B.	$\frac{3}{4}$ lb.	21	Vendors.....	
"	4	"	50451 Puddington, Wetmore, Morrison, Ltd., St. John, N.B.	$\frac{1}{4}$ "	21	" .....	
"	4	"	50452 G. E. Barbour Co., Ltd., St. John, N.B.	$\frac{1}{4}$ "	26	" .....	
"	5	"	50453 H. W. Cole, Ltd., St. John, N.B.	$\frac{1}{4}$ "	27	" .....	
"	5	"	50454 McCready & Son, Ltd., St. John, N.B.	$\frac{3}{4}$ "	18	" .....	
Oct.	5	"	50455 B. Beveridge, Andover, N.B.	3 pkgs	30	Baird & Peters, St. John, N.B.	
"	7	"	50456 H. N. Dickinson, Perth, N.B.	3 "	30	G. E. Barbour Co., Ltd., St. John, N.B.	
"	16	"	50457 J. T. Ryan, Moncton, N.B.	$\frac{3}{4}$ lb.	30	.....	Jones & Schofield St. John, N.B.
"	18	"	50458 Yerca Grocery Co., Ltd., Chatham, N.B.	$\frac{1}{4}$ "	27	Unknown .....	Unknown .....
"	19	"	50459 A. J. Meahan, Bathurst, N.B.	3 pkgs	24	.....	H. W. Cole, Ltd St. John, N.B.

DISTRICT OF QUEBEC—

Sept.	3	Ground Cinnamon	37221 Eudore Delisle, 2 Ave. Tachereau, Quebec.	$\frac{1}{4}$ lb.	30	Herron & Leblanc .	Mfrs., Montreal. .
"	5	"	37222 W. Cantin, 133 Rue du Pont, Quebec.	$\frac{3}{4}$ "	30	Unknown.....	Unknown.....
"	6	"	37223 G. Gingras, 268 Rue du Roie, Quebec.	$\frac{3}{4}$ "	30	" .....	J. B. Reneaud & Cie., Quebec.
"	9	"	37224 Cantin Frere, 271 Rue Joseph, Quebec.	$\frac{3}{4}$ "	30	" .....	
"	10	"	37225 C. S. Riverin, 50 Rue de la Couronne, Quebec.	$\frac{3}{4}$ "	30	Litster Pure Food Co., Toronto.	Mfrs.....
"	11	"	37226 Myrand & Pouliot, 70 Rue de la Couronne, Quebec.	$\frac{3}{4}$ "	30	Unknown.	Unknown .....
"	12	"	37227 Arthur Drolet, 714 Rue St. Valier, Quebec.	$\frac{1}{4}$ "	30	" .....	Herron & Leblanc, Montreal.
"	13	"	37228 A. Rinfret, 414 Rue St. Joseph, Quebec.	$\frac{3}{4}$ "	30	" .....	Unknown.....
"	16	"	37229 Hamel & Bedard, 728 Rue St. Joseph, Quebec.	$\frac{3}{4}$ "	30	Litster Pure Food Co., Toronto.	Mfrs.....
"	17	"	37230 V. Lacasse & Cie, 7 $\frac{3}{4}$ Rue St. Clair.	$\frac{3}{4}$ "	30	Unknown .....	White & Turner.



SESSIONAL PAPER No. 14  
GROUND CINNAMON.

Inspector's Report (Is not an expression of opinion).	Results of Analyses			Remarks and Other Data of Analyses
	Total Ash	Ash Insoluble in H. Cl	Microscopic Examination	

J. C. FERGUSON, INSPECTOR.

	3.00	0.20	Some soluble starch present, none of insoluble.	50150 Apparently genuine.
	1.50	0.04	Some thin slices of bark of outer bark; principally starch.	50151 Ash very low; apparently genuine.
	3.71	1.15	No foreign tissues, . . . . .	50152 Apparently genuine.
	1.81	0.79	"	50153
	2.00	0.08	"	50154
" Random Brand	1.60	0.08	"	50155
" Avoca Brand	3.32	1.20	"	50156
	3.47	1.07	"	50157
	9.92	1.48	"	50158 Total and insoluble ash high.
" This Brand	3.02	0.61	"	50159 Apparently genuine.

L. A. W. ELLAND, INSPECTOR.

	8.98	1.29	Some outer bark tissues	37221 Total and insoluble ash high.
	1.66	1.76	"	37222 Apparently genuine.
	5.10	2.20	Some foreign starches, principally starch, and other foreign tissues.	37223 Insoluble ash high; adulterated.
	1.60	1.72	" " " "	37224 Adulterated with foreign starch and tissues.
	6.60	3.05	No foreign tissues	37225 Total and insoluble ash high.
	2.62	0.21	"	37226 Apparently genuine.
	1.96	0.09	" " " " principally starch.	37227 Ash abnormally low; apparently genuine.
	6.09	3.02	A large amount of foreign starches apparently pea and wheat.	37228 Insoluble ash high; adulterated.
	5.06	1.80	No foreign tissues	37229 Apparently genuine.
	5.15	2.23	"	37230 Insoluble ash high.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ST. HYACINTHE —

1912.							
Sept 16	Ground Cinnamon	1465	W. J. Watkins, St. G. de Grantham	1 lbs	27	.....	L. Chaput fils & Cie, Montreal.
" 16	"	1466	Cyprien Gaumont, St. Bonaventure.	3/4 "	18	.....	Schooner & Cie., Pierreville.
" 17	"	1467	Laperriere & Filo, Pierreville.	1/4 "	19	Herron Le blanc, Montreal.	.....
" 17	"	1468	B. H. Belland, Yamaska, Ouest.	1/2 "	30	.....	Lacelle & Gendreau Montreal.
" 20	"	1469	M. Proulx, St. Aime.	3/4 "	30	Unknown.....	Unknown. ....
" 24	"	1470	Ed. Bienvenn, Farnham.	3/4 "	30	" .....	" .....
" 25	"	1471	J. A. Fortier, St. Sebastien.	3/4 "	20	.....	L. Chaput Fils & Cie., Montreal.
" 27	"	1472	A. Ledoux, St. Armand.	1/4 "	23	.....	Hudon & Orsali, Montreal.
Oct. 2	"	1473	A. N. Pierre, Megantic	1/4 "	23	J. J. Duffy & Co., Montreal.	Whitehead & Turner, Quebec.
" 8	"	1474	A. Bastien, Racine Ely	1 3/4 "	30	Unknown.....	Unknown. ..

DISTRICT OF MONTREAL —

Oct. 7	Ground Cinnamon	51021	Thos. J. Muir, 4500 St. St. Cath. St. Westmount.	3/4 lbs.	30	.....	.....
" 8	"	51022	R. Bernard, 91 Lagachitiere St., Montreal.	3/4 "	30	J. V. Boudrias Ltd., Montreal.	.....
" 8	"	51023	Theo. Rochon, 210 City Hall Ave., Montreal.	3/4 "	30	Unknown .....	.....
" 11	"	51024	Lewis Reese, 343 Church Ave., Verdum, P.Q.	3/4 "	30	.....	.....
" 11	"	51025	Jos. Bonenfont, 428 Church Ave., Montreal.	3/4 "	27	.....	.....
" 16	"	51026	Annex Prov. Co., 1750 Hutchison St., Montreal.	3/4 "	30	.....	.....
" 17	"	51027	Ceo. Dixon, Huntingdon, P. Q.	3/4 "	27	.....	.....
" 18	"	51028	F. J. Paquette, 385 Bleurey St., Montreal.	3/4 "	30	.....	.....
" 19	"	51029	E. Paquette, 39 Mount Royal Ave., East, Montreal.	3/4 "	30	.....	.....
" 19	"	51030	J. A. Courtemanche, 24 Rachel St., East, Montreal.	3/4 "	30	.....	.....



## SESSIONAL PAPER No. 14

## GROUND CINNAMON

Inspector's Report. Is not an expression of opinion.	Results of Analysis.			Remarks and Opinion of the Chief Analyst.
	Total Ash	Ash Insoluble in H <sub>2</sub> O	Microscopic Examination	

## J. C. ROULEAU, INSPECTOR

	p. c.	p. c.		
	5.53	2.06	No foreign tissues.	1465 Apparently genuine.
	3.72	1.36		1466
	4.06	1.97	Some foreign tissues, apparently cellulose, undetected.	1467 Doubtful.
	4.73	1.86	No foreign tissues.	1468 Apparently genuine.
	5.04	1.66		1469
	4.78	1.97		1470
	4.64	1.75		1471
	5.66	0.62	A small amount of cellulose present.	1472 Doubtful.
	5.26	2.58	No foreign tissues.	1473 Insufficient for test.
	5.98	0.82		1474 Apparently genuine.

## J. J. COSTIGAN, INSPECTOR.

	6.17	1.14	Contains a considerable amount of turneric.	51021 Doubtful.
	4.98	1.56	Contains a considerable amount of foreign starch and tissues, apparently pea starch.	51022 Adulterated.
	4.28	1.56	Contains a considerable amount of foreign starch and tissues, apparently pea starch.	51023 Adulterated.
	6.69	0.98	Contains a considerable amount of turneric.	51024 Doubtful.
	5.66	1.08	Contains a considerable amount of turneric.	51025
	6.49	1.15	Contains a considerable amount of turneric.	51026
"White Swan" Brand	3.26	0.49	No foreign tissues.	51027 Apparently genuine.
	3.64	1.03	Some dark colored tissues of outer bark.	51028
	4.43	1.53	Some dark colored tissues of outer bark.	51029
	4.18	0.92	A small amount of foreign starch apparently pea starch.	51030 Doubtful.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF OTTAWA -

1912.							
Aug. 30	Ground Cinnamon.	50262	J. C. Brown & Co., Vankleek Hill.	$\frac{3}{4}$ lb.	30	Gorman Eckert, London, Ont.	Mfrs . . . . .
Sept. 4	"	50263	Geo. Agar, Ottawa.	$\frac{3}{4}$ "	30	"	H. N. Bate & Sons, Ottawa.
" 4	"	50264	Alex. Phillips, Ottawa	$\frac{3}{4}$ "	30	Unknown	Unknown
" 5	"	50265	J. B. Bedard, Hull, P.Q.	$\frac{3}{4}$ "	30	"	"
" 5	"	50266	J. E. Ryan & Co., Hull, P.Q.	$\frac{3}{4}$ "	30	C. H. Cochrane & Co., Ottawa.	Mfrs . . . . .
" 6	"	50267	J. Culbert, Brockville	$\frac{3}{4}$ "	30	Pure Gold Mfg. Co., Ltd., Toronto.	"
" 6	"	50268	A. E. Shaver, Brockville.	$\frac{3}{4}$ "	30	"	"
" 7	"	50269	McDermott & McCarthy, Prescott.	$\frac{3}{4}$ "	30	J. M. Lowes Co., Ltd., Toronto.	"
" 11	"	50270	Wm. Miller, Ottawa.	$\frac{3}{4}$ "	30	Unknown	Unknown
" 18	"	51619	John Kerr, Merrickville.	$\frac{3}{4}$ "	30	"	"

DISTRICT OF KINGSTON -

Sept. 3	Ground Cinnamon.	50761	J. Campbell, Kingston	$\frac{3}{4}$ lb.	30	"	Geo. Robertson & Son, Kingston.
" 9	"	50762	S. R. Artis, Belleville.	$\frac{3}{4}$ "	30	"	J. Sloan & Son, Belleville.
" 9	"	50763	Wallbridge & Clark, Belleville.	$\frac{3}{4}$ "	30	"	Gunn Munroe Bros., Brantford
" 9	"	50764	C. Hilton, Belleville	$\frac{3}{4}$ "	30	"	White Swan Co., Toronto.
" 10	"	50765	H. Crozer, Cobourg.	$\frac{3}{4}$ "	80	"	Dalton Bros., Toronto.
" 10	"	50766	N. C. Nichols, Cobourg	$\frac{3}{4}$ "	30	"	E. Bey Blin Co., Toronto.
" 10	"	50768	F. Rosevear, Port Hope	$\frac{3}{4}$ "	30	"	F. F. Dalley Co., Hamilton.
" 10	"	50769	W. D. Sephens, Port Hope.	$\frac{3}{4}$ "	35	"	Gorman Eckert, London.
" 11	"	50770	W. J. Roulty, Peterboro.	$\frac{3}{4}$ "	30	"	White Swan Co., Toronto.
" 11	"	50792	J. Hill, Peterboro.	$\frac{3}{4}$ "	30	"	Gorman Eckert, London.



SESSIONAL PAPER No. 14  
GROUND CINNAMON.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis			Remarks and Opinion of the Chief Analyst
	Total Ash	Ash Insoluble in H. Cl.	Microscopical Examination	

J. A. RICKEY, INSPECTOR

	p. c.	p. c.		
	3.82	1.14	No foreign tissues	50262 Apparently genuine
	4.30	1.78		50263
	4.72	1.96	A large amount of foreign starch	50264 Adulterated.
	5.40	0.68	and tissues. Presence of Cinnamon, large quantities of wheat and maize starch. Co-	50265
	5.04	0.68	large quantities of	50266 Apparently genuine
	4.90	0.80	Some dark colored tissues in upper half	50267
	3.64	1.17	No foreign tissues	50268
	3.40	0.82	A few grains of ginger starch present.	50269
	5.60	1.92	No foreign tissues	50270
	3.13	0.87	A few grains of ginger starch present.	50271

JAS. HOGAN, INSPECTOR

	4.66	1.80	No foreign tissues	50761 Apparently genuine
	4.31	0.98		50762
	3.83	0.49		50763
			Sample destroyed in transit...	50764 Sample lost.
	3.51	0.43	A small amount of foreign tissues including Coconut shells.	50765 Doubtful.
	3.33	0.60	No foreign tissues	50766 Apparently genuine.
	5.05	1.34		50768
	4.04	1.28		50769
	3.52	0.82		50770
	3.43	0.80		50772



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF TORONTO—

1912.							
Sept. 13	Ground Cinnamon	51451	Fred Finn, 126 Denison Ave., Toronto.	$\frac{3}{4}$ lb.	27	.....	Pure Gold Mfg. Co., Ltd., Toronto.
" 13	" ..	51452	The Loblaw Store, 406 Queen st. west, Toronto.	$\frac{3}{4}$ "	30	.....	Medland Bros., Toronto.
" 16	" ..	51453	A. Bell, 1906 Queen st. east, Toronto.	$\frac{3}{4}$ "	25	.....	The J. M. Lowes Co., Ltd., Toronto.
" 17	" ..	51454	Good Bros., 1004 Bloor st. west, Toronto.	$\frac{3}{4}$ "	30	.....	Dalton Bros., Toronto.
" 20	" ..	51455	W. L. Bosworth, Newmarket.	$\frac{3}{4}$ "	30	.....	Unknown.....
Oct. 2	" ..	51456	J. A. Eton, 155 King William st., Hamilton	$\frac{3}{4}$ "	30	.....	Balfour, Smye & Co., Hamilton.
" 2	" ..	51457	Chas. Smith, 661 Barton st. east, Hamilton	$\frac{3}{4}$ "	20	.....	W. H. Gillard & Co., Hamilton.
" 2	" ..	51458	J. S. Nicholson, 244 Locke st. south, Hamilton.	$\frac{3}{4}$ "	19	.....	Young & Winfield, Hamilton.
" 2	" ..	51459	Cowalls Grocery (Branch), Queen & Humbert sts., Hamilton.	$\frac{3}{4}$ "	30	.....	Supplied from Main Store, 115 John st. south, Hamilton.
" 3	" ..	51460	W. R. Budge, 25 York st., Hamilton.	$\frac{3}{4}$ "	30	.....	Todhunter, Mitchell Co., Tor-

DISTRICT OF WINDSOR—

Oct. 2	Ground Cinnamon.	48150	C. Maston, Petrolia...	$\frac{3}{4}$ lb.	30	Unknown.....	Unknown.....
" 4	" ..	48172	R. H. Davis, Strath	$\frac{3}{4}$ "	30	.....	Elliott, Marr & Co., London.
" 7	" ..	48173	G. A. Curtis, Simcoe...	$\frac{3}{4}$ "	60	McLaren's, Ltd., Hamilton.	.....
" 7	" ..	48175	R. Edmunds, Simcoe...	$\frac{3}{4}$ "	30	White Swau S. & C. Co., Toronto.	.....
" 7	" ..	48180	G. J. Imeson, Simcoe...	$\frac{3}{4}$ "	30	I. & L. Spice & Coffee Co., London.	.....
" 7	" ..	48187	W. B. Hogarth & Son, Tillsonburg.	$\frac{3}{4}$ "	25	Unknown.....	Unknown.....
" 8	" ..	48189	Imrie & Stewardson...	$\frac{3}{4}$ "	30	.....	Masuret & Co., London.
" 8	" ..	48191	Harold M. Scott & Co., Tillsonburg.	$\frac{3}{4}$ "	30	.....	Geo. Watt & Son, Brantford.



## SESSIONAL PAPER No. 14

## GROUND CINNAMON.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H. Cl.	Microscopical Examination.		

## H. J. DAGER, INSPECTOR.

	p. c.	p. c.		
	3.87	1.18	No foreign tissues	51451 Apparently Genuine.
	3.16	0.96		51452
Pure Ground Cinnamon.	3.61	0.72		51453
	3.66	0.83		51454
	3.79	0.41		51455
	4.02	0.52		51456
	4.10	0.87		51457
	3.60	0.60		51458
	4.52	1.12		51459
	3.66	0.66		51460

## JNO. TALBOT, INSPECTOR.

	3.97	0.48	No foreign tissues...	48150 Apparently Genuine.
	3.52	0.98	Some dark coloured tissues from outer bark.	48172
	4.21	0.81	No foreign tissues...	48173
	3.46	0.25		48175
	4.71	1.24		48180
	3.91	1.03	Some dark coloured tissues from outer bark.	48187
	4.21	0.85	No foreign tissues...	48189
	5.42	1.84	"	48191



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MANITOBA—

1912.							
Sept. 17	Ground Cinnamon.	48711	J. E. Manning, Sargent ave., Winnipeg.	$\frac{3}{4}$ lb..	30	Unknown. ....	Unknown.....
" 17	"	48712	Conley & Yost, Winnipeg.	$\frac{3}{4}$ " ..	30	The Dyson Co., Win-nipeg.	Mfrs. ....
" 19	"	48713	M. Shnier, Emerson...	3 tins.	20	The White Star Mfg., Co., Winnipeg.	.....
" 23	"	48714	P. Nelson, Winnipeg..	$\frac{3}{4}$ lb.	30	.....	.....
" 23	"	48715	W. H. Morgan, Win-nipeg.	$\frac{3}{4}$ " ..	30	.....	The Codville Co., Winnipeg.
" 23	"	48716	West Mercantile Co., Winnipeg.	$\frac{3}{4}$ " ..	30	.....	.....
" 24	"	48717	P. J. Foley & Co., Stonewall.	$\frac{3}{4}$ " ..	30	.....	The Jobin Marrin Co., Winnipeg.
" 25	"	48718	C. Finkleman, Selkirk	$\frac{3}{4}$ " ..	25	.....	.....
" 25	"	48719	W. Robinson & Co., Ltd., Selkirk.	$\frac{3}{4}$ " ..	30	.....	.....
" 25	"	48720	W. Epstein, Selkirk...	$\frac{3}{4}$ " ..	30	.....	.....

DISTRICT OF NELSON—

Sept. 3	Ground Cinnamon.	49685	M. Scally, Nelson, B.C.	3 tins.	40	W. Braid & Co., Van-couver.	..
" 3	"	49692	Bell Trading Co., Nel-son, B.C.	$\frac{3}{4}$ lb..	30	W. Braid & Co., Vancouver.	.....
" 6	"	49704	G. B. Armstrong, Mer-ritt, B.C.	3 tins.	45	Kelly Douglas & Co., Vancouver.	.....
" 6	"	49709	Merritt Merc. Co., Mer-ritt, B.C.	$\frac{3}{4}$ lb..	30	W. Braid & Co., Van-couver.	.....
" 6	"	49715	Merritt Ind. Co. of Socy., Merritt, B.C.	3 tins.	30	W. H. Malkin & Co., Vancouver.	.....
" 9	"	49721	L. C. Masson, Revel-stoke, B.C.	$\frac{3}{4}$ lb..	30	Kelly Douglas & Co., Vancouver.	.....
" 9	"	49732	B. B. Camozzi, Revel-stoke, B.C.	3 tins.	40	Wilson Bros., Vict-oria, B.C.	.....
" 9	"	49735	D. Gallicano, Revel-stoke, B.C.	$\frac{3}{4}$ lb..	30	W. H. Malkin & Co., Vancouver.	.....
" 23	"	49755	H. G. Parson, Ltd., Golden, B.C.	3 tins.	45	Kelly Douglas & Co., Vancouver.	.....
" 23	"	49762	C. R. Lumber Co., Golden, B.C.	$\frac{3}{4}$ lb.	45	Kelly Douglas & Co., Vancouver.	.....

DISTRICT OF VANCOUVER—

Sept. 21	Ground Cinnamon	38429	Red Star Grocery, 2,505 Main St., Van-couver, B.C.	$\frac{3}{4}$ lb.	35	Empress M'fg. Co., Vancouver.	.....
" 21	"	38430	Efford Bros., 244 Broad-way E., Vancouver, B.C.	$\frac{3}{4}$ " ..	30	Unknown ..	.....
" 21	"	38431	Moore's Grocery, 2425 Main St., Van-couver, B.C.	$\frac{3}{4}$ " ..	30	" ..	.....



[illegible]

P <sub>1</sub>	P <sub>2</sub>			
4.23	0.40	Nitrogen fixation	48711	Apparently genuine
3.61	0.26	" "	48712	" "
2.34	0.27	" "	48713	" "
3.28	0.85	" "	48714	" "
3.67	1.91	" "	48715	" "
5.26	0.68	" "	48716	" "
4.20	0.19	" "	48717	" "
2.71	0.67	" "	48718	" "
3.61	1.10	" "	48719	" "
3.48	0.89	" "	48720	" "

1968	3.34	0.09	No foreign tissues.	1968	Apparently gone.
1969	2.82	0.12		1969	"
1970	2.60	0.12	" " .....	1970	" "
1971			.....	1970	Sample lost.
1972	2.97	0.49	No foreign tissues.	1971	Apparently gone.
1973	2.60	0.69		1972	
1974	2.82	0.23		1973	
1975	3.76	1.06	Small, soft dark tissue.	1973	
1976	2.60	0.07	No foreign tissues.....	1975	
1977	2.81	0.10		1976	

	3.44	0.04	No foreign tissues.	38429	Apparently genuine.
	3.26	0.24	" "	38430	" "
..	2.65	0.07	" "	38431	" "

\* Sample destroyed in transit.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VANCOUVER—

1912.							
Sept. 21	Ground Cinnamon	38432	Kelly's Grocery, 2333 Main St., Vancouver, B.C.	$\frac{3}{4}$ lb.	30	Kelly Douglas & Co., Vancouver.	
" 21	"	38433	F. Fillion, Carrol St., Vancouver, B.C.	$\frac{3}{4}$ "	30	Empress M'f'g. Co., Vancouver.	
" 23	"	38434	F. Ayling, Cedar Cottage, Vancouver, B.C.	$\frac{3}{4}$ "	30	" "	
" 23	"	38435	Lyon's Grocery, Commercial Drive, Vancouver, B.C.	3 tins.	45	Oriental Mills Co., Vancouver.	
" 23	"	38436	J. Main, Commercial Drive, Vancouver, B.C.	$\frac{3}{4}$ lb.	30		
" 23	"	38437	Clark's Grocery, Hastings St., E., Vancouver, B.C.	$\frac{3}{4}$ "	35	Kelly Douglas Co., Vancouver.	
" 23	"	38438	A. A. Bower, Main St., Vancouver, B.C.	$\frac{3}{4}$ "	30	Empress M'f'g. Co., Vancouver.	

DISTRICT OF VICTORIA—

Sept. 10	Ground Cinnamon	49188	Windsor Grocery Co., 817 Gov't St., Victoria, B.C.	$\frac{3}{4}$ lb.	40		Pioneer Coffee and Spice Mills, Victoria, B.C.
" 11	"	49189	The West End Grocery Co., Ltd., Victoria B.C.	3 tins.	30		R. P. Rithet & Co., Victoria, B.C.
" 11	"	49190	Copas & Young, 613 Fort St., Victoria, B.C.	3 "	25		W. Braid & Co., Vancouver.
" 16	"	49191	Acton Bros., 1317 Douglas St., Victoria, B.C.	3 "	30		Empress M'f'g. Co., Vancouver.
" 16	"	49192	H. & K. Grocery, 1425 Douglas St., Victoria, B.C.	3 "	30		"
" 19	"	49193	Harrison & McDonald, 1215 Douglas St., Victoria, B.C.	$\frac{3}{4}$ lb.	30		"
" 20	"	49194	F. E. Plummer, 1118 Quadra St., Victoria, B.C.	3 tins.	30		S. Leiser & Co., Victoria, B.C.
" 24	"	49195	E. G. Bailey, 755 Fort St., Victoria, B.C.	3 "	30		W. A. Jameson Coffee Co., Victoria, B.C.
" 25	"	49196	Erskine & Co., 861 Johnston St., Victoria, B.C.	3 "	30		"
Oct. 15	"	49197	Henry W. Driver, 856 Yates St., Victoria, B.C.	3 "	30		E. R. Durkee, New York.



## SESSIONAL PAPER No. 14

## GROUND CINNAMON.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H. Cl.	Microscopical Examination.		
Concluded.					
	p.c.	p.c.			
	2.66	0.04	No foreign tissues.	38432	Apparently genuine.
	3.29	0.03		38433	
	3.32	0.06		38434	
The Spice in this Can is guaranteed to be of the finest quality, full strength and full weight.	2.61	0.14		38435	
	3.61	0.44	Contains foreign tissues and much starch.	38436	Adulterated.
	3.56	0.14	No foreign tissues.	38437	Apparently genuine.
	3.49	0.17		38438	

D. O'SULLIVAN, INSPECTOR.

	4.36	1.76	No foreign tissues.	49188	Apparently genuine.
"St. James" Brand	4.18	1.62		49189	" "
"Anti-Combine"	2.63	0.11		49190	
"Empress" "	3.19	0.08		49191	
" "	3.13	0.09		49192	
" "	4.05	1.63		49193	
"Lord Roberts"	4.11	1.53		49194	
"Victoria"	3.51	0.69		49195	
" "	4.96	2.12		49196	Insoluble ash high.
"Gauntlet"	3.08	0.37		49197	Apparently genuine.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1912.							
Sept. 11	Ground Cassia.....	46851	Wentzells Ltd., Halifax, N.S.	$\frac{3}{4}$ lb..	18	J. P. Mott & Co., Halifax, N.S.	Mfrs.. .. .
" 11	"	46852	Wm. Moore, Halifax, N.S.	$\frac{3}{4}$ " ..	21	" " ..	" .. .
" 13	"	46853	Jno. P. Mott & Co., Halifax, N.S.	$\frac{3}{4}$ " ..	Nil.	" " ..	" .. .
" 13	"	46854	Nat. Drug & Chem. Co., Halifax, N.S.	$\frac{3}{4}$ " ..	20	Vendors. . . . .	" .. .
" 16	"	46855	Morrison & Williams, Halifax, N.S.	$\frac{3}{4}$ " ..	18	W. H. Schwartz & Sons, Halifax.	Mfrs.....
" 17	"	46856	Bauld Bros. Ltd., Halifax, N.S.	$\frac{3}{4}$ " ..	24	" " ..	" .. .
" 17	"	46857	Jas. Scott & Co., Halifax, N.S.	$\frac{3}{4}$ " ..	20	C. H. Cochrane, Ottawa.	" .. .
" 17	"	46858	A. L. Doyle & Co., Halifax, N.S.	$\frac{3}{4}$ " ..	21	W. H. Schwartz & Sons, Halifax.	" .. .
" 18	"	46859	R. B. Seeton & Co., Halifax, N.S.	$\frac{3}{4}$ " ..	18	" " ..	" .. .
" 19	"	46860	W. H. Schwartz & Sons, Halifax, N.S.	$\frac{3}{4}$ " ..	15	Vendors.. .. .	" .. .

DISTRICT OF PRINCE EDWARD ISLAND—

Sept. 6	Ground Cassia. . . .	46287	J. G. Jamieson, Charlottetown, P.E.I.	$\frac{3}{4}$ lb..	30	Lyman's, Ltd., Montreal.	.....
" 7	"	46288	A. Gates & Co., Charlottetown, P.E.I.	$\frac{3}{4}$ " ..	30	Pure Gold Co., Toronto.	.....
" 9	"	46289	Coffin & Co., Charlottetown, P.E.I.	$\frac{3}{4}$ " ..	30	G. D. Barbour, St. John, N.B.	.....
" 12	"	46290	J. G. Passmore, Charlottetown, P.E.I.	$\frac{3}{4}$ " ..	30	.....	J. A. Farquharson & Co., Charlottetown, P.E.I.
" 12	"	46291	L. A. Haszard, Charlottetown, P.E.I.	$\frac{3}{4}$ " ..	30	Schwartz & Sons, Halifax, N.S.	.....
" 14	"	46292	Reddin Bros., Charlottetown, P.E.I.	$\frac{3}{4}$ " ..	30	Lyman's Ltd., Montreal.	.....
" 21	"	46293	Apothecaries Hall Co., Charlottetown, P.E.I.	$\frac{3}{4}$ " ..	30	" " ..	.....
Oct. 1	"	46294	Brace McKay & Co., Summerside, P.E.I.	$\frac{3}{4}$ " ..	30	Pure Gold Co., Toronto.	.....
" 3	"	46295	J. J. Hughes, Souris, P.E.I.	$\frac{3}{4}$ " ..	30	Nat. Drug & Chem. Co., Halifax.	.....
" 3	"	46296	Mathew & McLean, Souris, P.E.I.	$\frac{3}{4}$ " ..	24	Dearborn & Co., St. John, N.B.	.....



## SESSIONAL PAPER No. 14

## GROUND CASSIA.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.			Remarks and Opinion of the Chief Analyst.
	Total Ash.	Insoluble Ash in H <sub>2</sub> O.	Microscopical Examination	

## R. J. WAUGH, INSPECTOR.

	p. c.	p. c.			
	2.67	0.56	No foreign tissues.....	46851	Apparently genuine.
	2.81	0.56	" "	46852	" "
	3.29	0.53	" "	46853	" "
	3.35	0.64	" "	46854	" "
	3.35	0.90	" "	46855	" "
	3.61	1.10	" "	46856	" "
	3.29	0.94	" "	46857	" "
	3.55	1.10	" "	46858	" "
	3.43	1.00	" "	46859	" "
	3.74	1.09	" "	46860	" "

## WM. A. WEEKS, INSPECTOR.

	4.05	0.92	No foreign tissues.....	46287	Apparently genuine.
	3.30	0.88	" "	46288	" "
	3.18	0.78	" "	46289	" "
	3.94	1.04	" "	46290	" "
	3.34	0.80	" "	46291	" "
	4.94	1.45	" "	46292	" "
	3.86	0.76	" "	46293	" "
	4.56	1.55	" "	46294	" "
	4.50	1.41	" "	46295	" "
	3.83	1.09	" "	46296	" "



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NEW BRUNSWICK—

1912.							
Sept.	4	Ground Cassia.	50460 Dearborn & Co., St. John, N.B.	$\frac{3}{4}$ lb.	18	Vendors.....	
"	4	"	50461 Puddington, Wetmore, Morrison, Ltd., St. John, N.B.	$\frac{3}{4}$ "	14	" .....	
"	4	"	50462 J. E. Barbour, & Co., Ltd., St. John, N.B.	$\frac{3}{4}$ "	21	" .....	
"	5	"	50463 H. W. Cole, Ltd., St. John, N.B.	$\frac{3}{4}$ "	18	" .....	
"	5	"	50464 McCready & Son, Ltd., St. John, N.B.	$\frac{3}{4}$ "	15	" .....	
"	5	"	50465 L. H. Thorne, St. John, N.B.	$\frac{3}{4}$ "	15	Vendor.....	
"	25	"	50466 S. V. Skillen, St. Martins, N.B.	$\frac{3}{4}$ "	25	G. S. Barbour Co., Ltd., St. John, N.B.	
Oct.	7	"	50467 Geo. T. Baird Co., Ltd., Perth, N.B.	$\frac{3}{4}$ "	24	Dearborn & Co., St. John, N.B.	
"	16	"	58468 D. A. McBeath, Monton, N.B.	$\frac{3}{4}$ "	30	.....	F. P. Reid & Co., Montcton.
"	19	"	50469 A.C. Branch, Bathurst, N.B.	3pkgs.	24	.....	Geo. S. De Forest & Sons, Ltd., St. John, N.B.

DISTRICT OF QUEBEC—

Sept.	4	Ground Cassia.	37231 O. Lacroix, 19 Rue St. Joseph, Quebec.	$\frac{3}{4}$ lb.	30	Lemesurier & Son, Quebec.	J. B. Renaud & Cie.
"	6	"	37232 G. Gingras, 268 Rue de Roie, Quebec.	$\frac{3}{4}$ "	30	McLaren's Hamilton.	M'f'rs.....
"	11	"	37233 Myrand & Pouliot, 70 Rue de la Couronne, Quebec.	$\frac{3}{4}$ "	30	Unknown.....	Unknown.....
"	18	"	37234 Alfred Boily, 38 Cote D'Abraham, Quebec.	$\frac{3}{4}$ "	30	Dom. Flour Mills ...	Herron & Leblanc
"	18	"	37235 J. A. Tremblay, 139 Rue Richelieu, Quebec.	$\frac{3}{4}$ "	30	Integrity Mills, Toronto.	J. B. Reneaud....
"	19	"	37236 Jos. Boiteau, 37 Rue Sutherland, Quebec.	$\frac{3}{4}$ "	30	Unknown.....	N. Turcot et fils..
"	19	"	37237 Abel Turcot, 272 Rue St. Jean, Quebec.	$\frac{3}{4}$ "	30	" .....	Turcot et Frere...
"	23	"	37238 J. E. Gregoire, 128 Rue du Pont, Quebec.	$\frac{3}{4}$ "	30	Nat. Coffee and Spice Co., Montreal.	M'f'rs.....
"	23	"	37239 M. W. Colman, 98 Rue du Pont, Quebec.	$\frac{3}{4}$ "	45	Unknown.....	S. Harnig, Montreal.
"	23	"	37240 L. F. Martel, 64 Rue du Pont, Quebec.	$\frac{3}{4}$ "	30	Litster Pure Food Co., Toronto.	M'f'rs.....



## SESSIONAL PAPER No. 14

## GROUND CASSIA.

Inspector's Report, (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H. Cl.	Microscopical Examination.		

## J. C. FERGUSON, INSPECTOR.

	p. c.	p. c.			
	3.60	1.00	Some dark coloured tissues ; bark.	50460	Apparently genuine.
	7.56	3.62	No foreign tissues	50461	Total and insoluble ash high.
	5.01	1.30		50462	Apparently high.
	4.56	0.89		50463	
	3.52	0.13		50464	
	2.56	0.20	" " Large propor- tion of starch.	50465	
" Acorn " Brand.	5.80	1.97	No foreign tissues	50466	
	3.83	0.32		50467	
" Pyramid " Brand.	7.20	3.02		50468	Total and insoluble ash high.
" Honeysuckle " Brand	10.06	5.75		50469	

## F. X. W. E. BELAND, INSPECTOR

	2.28	0.09	No foreign tissues. Large pro- portion of starch. (Sample very coarsely ground)	37231	Apparently genuine.
	3.60	0.55	No foreign tissues	37232	"
	4.30	2.17	This sample is allspice	37233	Allspice - by mistake.
	6.98	2.51	No foreign tissues	37234	Total and insoluble ash high.
	6.61	2.91		37235	"
	7.50	3.16	"	37236	"
	2.88	0.54	A considerable quantity of f- oreign, woody and bark tissu	37237	Doubtful.
	6.41	1.87	No foreign tissues ; appears to be full of dust.	37238	Total ash high.
	7.17	1.87	" " "	37239	" " doubtful.
	5.18	1.83	" " "	37240	Doubtful.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ST. HYACINTHE—

1912.							
Sept. 16	Ground Cassia.	1476	A. Miquette, St. Pie de Guire.	$\frac{3}{4}$ lb.	15	.....	Cartier & Laramie, St. Francois du Lac.
" 25	"	1477	D. H. Conner, Bedford.	$\frac{3}{4}$ "	20	Unknown	Unknown
" 26	"	1478	A. E. Selby, Dunham.	3 tins.	30	.....	Mathewsons Sons, Montreal.
" 26	"	1479	J. A. McLaughlin, Cowansville.	$\frac{3}{4}$ lb.	22	Pure Gold Mfg. Co., Toronto.	.....
Oct. 1	"	1480	Hubert & Fortier, Sherbrooke East.	$\frac{3}{4}$ "	30	The F. F. Dalley Co., Hamilton.	.....
" 2	"	1481	J. O. McDonald, Megantic.	3 tins.	30	White Swan S. & C. Co., Toronto.	.....
" 3	"	1482	Lovell Bros., Coaticook.	$\frac{3}{4}$ "	24	Herron Leblanc, Montreal.	.....
" 3	"	1483	Gosselin & Paradis, Magog.	$\frac{3}{4}$ lb.	30	.....	E. Paradis, Magog.
" 10	"	1484	J. Laundry & Cie, Sherbrooke.	$\frac{3}{4}$ "	30	Herron Leblanc, Montreal.	.....
" 11	"	1485	E. Lafrance, St. Hyacinthe.	$\frac{3}{4}$ "	19	J. V. Boudrias, Montreal.	.....

DISTRICT OF MONTREAL—

Oct. 7	Ground Cassia.	51011	W. Biltcliffe, 350 Vict. Ave., Westmount.	$\frac{3}{4}$ lb.	30	.....	.....
" 10	"	51012	Deschenes & Picard, Joliette, P.Q.	$\frac{3}{4}$ "	30	.....	.....
" 16	"	51013	A. E. Sennat, 141 Villeneuve St. West, Montreal.	$\frac{3}{4}$ "	30	.....	.....
" 16	"	51014	Z. Lapointe, 54 Villeneuve St. W., Montreal.	$\frac{3}{4}$ "	30	.....	.....
" 17	"	51015	John Smaill, Huntingdon, P.Q.	3 tins.	30	F. F. Dalley Co., Ltd.	.....
" 17	"	51016	Pringle, Stark & Co., Huntingdon, P.Q.	$\frac{3}{4}$ lb.	30	.....	.....
" 17	"	51017	Geo. Dixon, Huntingdon, P.Q.	$\frac{3}{4}$ "	27	.....	.....
" 18	"	51018	P. Elliott, 276 Ontario st. W., Montreal.	$\frac{3}{4}$ "	30	.....	.....
" 18	"	51019	P. Elliott, 276 Ontario st. W., Montreal.	3 tins.	30	Lister Pure Food Co.	.....
" 18	"	51020	T. A. Wood & Co., 536 Aylmer, W., Montreal.	$\frac{3}{4}$ lb.	30	S. H. Ewing & Sons.	.....



## SESSIONAL PAPER No. 14

## GROUND CASSIA.

Inspector's Report. (Is not an expression of Opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H <sub>2</sub> O.	Maize starch Examination.		

## J. C. ROULEAU, INSPECTOR.

	p. c.	p. c.			
.....	1.35	1.55	Contains a small amount of foreign starch and fibres, apparently pea starch.	1476	Doubtful.
.....	1.02	0.20	No foreign tissues.	1477	Apparently genuine.
.....	2.42	0.66	Large proportion of starch.	1478	
.....	3.60	1.24	No foreign tissues.	1479	
.....	5.36	1.46		1480	
.....	4.58	1.94		1481	
.....	4.49	0.55		1482	
.....	3.32	0.46		1483	
.....	6.34	3.00	Some dark colored tissues at outer back.	1484	Total and insoluble ash high.
....	3.84	0.40	Contains small amount of foreign starch and fibres, apparently pea starch.	1485	Doubtful.

## J. J. COSTIGAN, INSPECTOR.

.....	6.15	0.91	Turmeric and other foreign tissues present.	51011	Total ash high. Doubtful
"Imperial" Brand.	9.48	3.00	No foreign tissues. (Looks dusty).	51012	Total and insoluble ash high.
.....	8.78	4.16	No foreign tissues.	51013	
.....	7.68	3.64		51014	
.....	5.17	1.69		51015	Apparently genuine.
"White Swan" Brand.	3.42	0.86		51016	
.....	4.87	0.17	This sample is apparently cloves.	51017	Cloves—by mistake.
.....	2.82	0.81	Maize starch present and some foreign tissues.	51018	Adulterated.
.....	8.63	4.58	No foreign tissues.	51019	Total and insoluble ash high.
.....	9.39	4.70		51020	



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF OTTAWA—

1912.							
Aug. 31	Ground Cassia.	50271	H. M. Shaw, Perth, Ont.	$\frac{3}{4}$ lb..	30	The Hamilton Coffee & Spice Co. Hamilton.	Manufacturers....
Sept. 4	" ..	50272	A. S. Moreland, Ottawa.	3 tins.	15	C. H. Cochrane & Co., Ottawa.	" ....
" 4	" ..	50273	H. A. McCagg, Ottawa	3 "	30	Unknown. ....	F. J. Castle Co., Ottawa.
" 5	" ..	50274	Jules Gratton, Hull, P. Q.	$\frac{3}{4}$ lb..	30	C. H. Cochrane & Co., Ottawa.	Manufacturers....
" 7	" ..	50275	Jas. H. Bradley, Prescott.	$\frac{3}{4}$ "	30	J. M. Lowes & Co., Toronto.	" ....
" 7	" ..	50276	C. Whitney & Son, Prescott.	$\frac{3}{4}$ "	30	McLarens's, Ltd., Hamilton.	" ....
" 12	" ..	50277	Geo. H. Hall & Co., Ottawa.	$\frac{3}{4}$ "	30	C. H. Cochrane & Co., Ottawa.	" ....
" 18	" ..	50278	Wm. Cusick, Merrickville.	$\frac{3}{4}$ "	30	Unknown. ....	Unknown . . . .
" 18	" ..	50279	E. H. Tallman, Merrickville.	$\frac{3}{4}$ "	30	" .....	" .....
" 18	" ..	50280	Miss M. McGill, Merrickville.	$\frac{3}{4}$ "	30	" .....	" .....

DISTRICT OF KINGSTON—

Sept. 9	Ground Cassia.	50771	H. C. Hampton, Belleville.	$\frac{3}{4}$ lb..	30	.....	.....
" 10	" ..	50772	S. P. Harvey & Son, Cobourg.	$\frac{3}{4}$ "	30	.....	Todhunter & Mitchell.

DISTRICT OF TORONTO—

Sept. 13	Ground Cassia.	51461	Foster & Swift, Pope & Gerrard sts., Toronto	$\frac{3}{4}$ lb	30	.....	Unknown .....
" 13	" ..	51462	J. A. Jeffery, 1025 Gerrard st. east, Toronto	$\frac{3}{4}$ "	30	.....	.. .....
" 16	" ..	51463	Chas. Harlock, 1961 Queen st. east, Toronto.	$\frac{3}{4}$ "	25	.....	.....
" 16	" ..	51464	Heck Bros., 585 King st. west, Toronto.	$\frac{3}{4}$ "	27	.....	J. M. Lowes Co., Ltd., Toronto.
" 16	" ..	51465	J. A. Macdonald, King & Spencer sts., Toronto.	$\frac{3}{4}$ "	30	.....	Eby. Blain, Ltd., Toronto.
" 17	" ..	51466	A. M. Hough, 1666 Queen st. west, Toronto.	$\frac{3}{4}$ "	25	.....	Todhunter, Mitchell & Co., Toronto.
" 17	" ..	51467	H. Woods, 1614 Queen st. west, Toronto.	$\frac{3}{4}$ "	30	.....	Litster Pure Food Co., Ltd., Toronto.
" 20	" ..	51468	W. C. Howard, New-market.	$\frac{3}{4}$ "	30	.....	Dalton Bros., Toronto.



## SESSIONAL PAPER No. 14

## GROUND CASSIA.

Inspector's Report (Is not an expression of opinion).	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H. Cl.	Microscopical Examination.		
J. A. RICKEY, INSPECTOR.					
	p. c.	p. c.			
	3.93	0.56	No foreign tissues	50271	Apparently genuine.
	2.05	0.66	Large proper tion of starch.	50272	"
	3.80	0.82	No foreign tissues	50273	"
	2.98	0.54	"	50274	"
	3.37	0.66	"	50275	"
	4.60	1.07	"	50276	"
	2.66	0.35	"	50277	"
	3.54	0.86	"	50278	"
	2.13	0.14	Large proper tion of starch.	50279	"
	2.25	0.12	No foreign tissues	50280	"
JAS. HOGAN, INSPECTOR					
	4.25	0.34	Consists of wheat, ginger, all- spice, and maize starches. Clover stems, alfalfa, fennel, etc. has some smell and flavor of cloves (but flavor mostly lost by cooking).	50771	Adulterated.
	3.76	1.16	No foreign tissues	50772	Apparently genuine.
H. J. DAGER, INSPECTOR.					
	3.55	0.80	No foreign tissues	51461	Apparently genuine.
	3.57	1.09	"	51462	"
	2.67	0.52	Contains maize starch, and some foreign tissues.	51463	Adulterated.
	3.40	0.84	No foreign tissues	51464	Apparently genuine.
	3.17	0.15	"	51465	"
	4.37	1.63	"	51466	"
	6.06	2.47	"	51467	Insoluble ash high.
	3.78	1.16	"	51468	Apparently genuine.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF TORONTO—

1912.							
Oct.	1	Ground Cassia.	51469 H. B. Clement. Burlington.	$\frac{3}{4}$ lb..	23	.....	Lumsden Co., Hamilton.
"	1	"	51470 H. C. Davis, Dundas.	$\frac{3}{4}$ " ..	30	.....	Geo. E. Bristol & Co., Hamilton.

DISTRICT OF WINDSOR—

Oct.	2	Ground Cassia.	48148 R. Stirret Co., Petrolia.	$\frac{3}{4}$ " ..	30	Unknown .....	Unknown .....
"	2	"	48153 J. E. Anderson, Wyom ing.	$\frac{3}{4}$ " ..	30	F. F. Dalley Co., .....	Hamilton.
"	3	"	48161 R. Wanless & Co., Sarnia.	$\frac{3}{4}$ " ..	30	Todhunter & Mitchell, .....	Hamilton.
"	7	"	48177 Oscar R. Hauselman, Simcoe.	$\frac{3}{4}$ " ..	30	White Swan S. & Co., .....	Toronto.
"	7	"	48181 L. F. Aiken, Simcoe..	$\frac{3}{4}$ " ..	45	McLarens Ltd., Ham- ilt.	.....
"	7	"	48183 G. O. Werrett, Simcoe.	$\frac{3}{4}$ " ..	45	" ..	.....
"	8	"	48185 Ray G. Colburn, Till- sonburg.	$\frac{3}{4}$ " ..	30	.....	Geo. Watt & Son, Brantford.
"	8	"	48192 R. M. Teall, Tillson- burg.	$\frac{3}{4}$ " ..	30	.....	T. B. Escott Co., London.

DISTRICT OF MANITOBA—

Sept.	20	Ground Cassia.	48700 The Gold Standard Mfg. Co., Winnipeg.	$\frac{3}{4}$ lb..	Nil.	Vendors .....	.....
"	17	"	48721 J. E. Manning, Sargent Ave., Winnipeg.	$\frac{3}{4}$ " ..	30	McLarens, Ltd., Hamilton.	Unknown .....
"	17	"	48722 R. Seymour, Winnipeg.	$\frac{3}{4}$ " ..	30	Unknown .....	" .....
"	17	"	48723 MacKenzie & Reeve, Winnipeg.	$\frac{3}{4}$ " ..	30	Todhunter, Mitchell Co., Toronto.	" .....
"	17	"	48724 " ..	$\frac{3}{4}$ " ..	30	McLarens, Ltd., Hamilton.	.....
"	18	"	48725 B. Arnason, Sargent Ave., Winnipeg.	$\frac{3}{4}$ " ..	30	Campbell Bros. & Wilson, Winnipeg.	Mfrs .....
"	18	"	48726 C. Corneil, Langside St., Winnipeg.	$\frac{3}{4}$ " ..	30	Unknown .....	Unknown .....
"	18	"	48727 W. S. Simpson, Sargent Ave., Winnipeg.	$\frac{3}{4}$ " ..	30	Gold Standard Mfg. Co., Winnipeg.	Mfrs .....
"	20	"	48728 Campbell Bros. & Wil- son, Winnipeg.	3 tins.	Nil.	Vendors....	.....
"	20	"	48729 The Dyson Co., Win- nipeg.	$\frac{3}{4}$ lb..	"	" .....	.....
"	20	"	48730 The White Star Mfg. Co., Winnipeg.	3 tins.	"	" .....	.....



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## GROUND CASSIA.

Inspector's Report (Is not an expression of Opinion.)	Results of Analysis.			Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H <sub>2</sub> O.	Microscopical Examination	

*Continued.*

	p.c.	p.c.		
	4.27	0.51	No foreign tissues.	48169 Apparently genuine.
	3.26	0.24		48170

## JNO. TALBOT, INSPECTOR.

	3.39	0.56	No foreign tissues.	48145 Apparently genuine.
Labelled DeLays Pure Ground Cassia.	3.87	0.84		48146
Labelled T. Hunter's Pure Select Cassia.	3.38	0.81		48161
	4.03	1.05		48177
	4.04	0.69		48181
	4.02	0.63		48183
	3.56	0.66		48185
	3.40	0.42		48192

## A. C. LARIVIERE, INSPECTOR.

	3.66	0.94	No foreign tissues...	48709 Apparently genuine.
	4.80	1.22		48721
	3.60	1.19		48722
	3.97	1.29		48723
	3.95	0.62		48724
"Royal Shield"	3.03	0.60		48725
	2.72	0.60	Contains a large amount of wheat and maize starches, bean shells, &c.	48726 Adulterated.
	4.43	1.32	No foreign tissues.....	48727 Apparently genuine.
"Royal Shield"	3.54	0.90		48728
	3.36	0.56		48729
	4.16	1.06		48730



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NELSON—

1912.							
Sept. 6	Ground Cassia.....	49711	Merritt Merc. Co., Merritt, B.C.	2 tins.	30	Balfour & Co., Ham- ilton.	.....
" 9	" ..	49726	Bourne Bros., Revel stoke, B.C.	3 " .	45	Pure Gold Mfg. Co., Toronto.	.....
" 23	" ..	49747	C. A. Warren, Golden B.C.	3 " .	30	Campbell Bros. & Wil- son, Winnipeg.	.....
" 23	" ..	49754	H. G. Parson, Ltd., Golden, B.C.	3 " .	30	Georgeson & Co., Cal- gary.	.....
" 23	" ..	49766	Rolston & Mitchell, Golden, B.C.	3 " .	30	Campbell Bros. & Wil- son, Winnipeg.	.....
" 24	" . ..	49770	Field Trading Co., Field, B.C.	3 " .	40	" "	.....
Oct. 1	" ..	49784	Citizen's Co-op. Assoc. Nelson, B.C.	3 " .	30	Georgeson & Co., Calgary.	.....

DISTRICT OF VANCOUVER—

Sept. 20	Ground Cassia.....	38409	McDonald & Co., Granville St., Van- couver, B.C.	3 tins.	30	Shilling Ltd., San Francisco, Cal.	.....
" 20	" ..	38410	Walford & Roney..... Vancouver, B.C.	3 " .	30	Wm. Braid & Co., Vancouver.	.....

DISTRICT OF VICTORIA—

Oct. 15	Ground Cassia.....	49198	W. A. Jameson Coffee Co., 754 Broughton St., Victoria, B.C.	$\frac{3}{4}$ lb..	80	.....	Dunn & Co., Ham- ilton.
" 19	" ..	49199	Pioneer Coffee & Spice Mills, 641 Pembroke St., Victoria, B.C.	$\frac{3}{4}$ " ..	30	Vendors ..	.....



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GROUND CASSIA.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.			Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H <sub>2</sub> O.	Microscopical Examination.	

THOS. PARKER, INSPECTOR.

	p. c.	p. c.		
	4.28	1.37	No foreign tissues..	49711 Apparently genuine.
	3.61	0.51		49732
"Royal Shield" . . .	3.05	0.25		49747
"Tutelo"	3.08	0.34		49754
"Royal Shield"	2.81	0.45		49766
	3.10	0.64		49770
	2.76	0.61		49784

J. F. POWER, INSPECTOR.

Labelled "Cinnamon Saigon Cassia" Sold as Cassia.	3.84	0.19	No foreign tissues.	38417 Apparently genuine.
Labelled Cinnamon Sold as Cassia. De- clared to be no differ- ence between the two spices.	2.91	0.14		38410

D. O'SULLIVAN, INSPECTOR

	3.24	0.56	No foreign tissues . . . . .	49198 Apparently genuine.
	3.29	0.87		49199







## APPENDIX P.

## BULLETIN No. 252—GROUND CLOVES—A STUDY.

OTTAWA, March 14, 1913.

WM. HIMSWORTH, F.S.P.,

Acting Deputy Minister, Inland Revenue.

SIR,—I have the honour to present you a report upon 141 samples of Ground Cloves. The samples were purchased by our Inspectors on the open market, throughout Canada, chiefly of retail grocers who are the usual purveyors of the article.

Cloves are found in the retail trade both in the unground and in the ground state. The form of this spice is so distinctive that, when sold in the unground condition it admits of no sophistication, except that it may have had its essential oil more or less removed by an extraction process. The demand for this oil (*Eugenol*) as a source of artificial vanillin is very considerable, and doubtless accounts for the large amount of exhausted cloves on the market.

We have made two extensive inspections of cloves in these laboratories. The first is reported in Bulletin 73 (October, 1906). This is chiefly a study of whole cloves, and was undertaken in consequence of complaints received from a reputable English house, concerning the importation of exhausted cloves into Canada. Nineteen samples of whole cloves and twenty-two of ground cloves were submitted to analysis; and the results were such as to demonstrate the need of defining limits, particularly as regards the content of volatile oil, for the legally genuine article.

The following conclusion was reached as a result of the work reported in Bulletin 73:—

‘No sample of Cloves claiming to be of good quality, should yield less than 14 per cent of volatile oil when assayed by the methods which are herein described. If total volatile matter is determined by treatment with petroleum ether, before drying at 98° C., the minimum volatile matter found should be at least 16 per cent by weight.’



4 GEORGE V., A. 1914

The Committee upon Food Standards of the United States (Circ. 19, Department of Agriculture, Washington, June, 1906) recommends the following standards for Cloves:—

‘The dried flower buds of *Caryophyllus Aromaticus*, which contain not more than 5 per cent of clove stems; not less than 10 per cent Volatile Ether Extract; not less than 12 per cent quercitannic acid; not more than 8 per cent total ash; not more than 0.5 per cent ash insoluble in hydrochloric acid; not more than 10 per cent crude fibre.’

The volatile Ether Extract mentioned in this definition is not strictly identical with volatile oil, for the reason that it is determined on the cloves after drying by a method which involves a considerable, and an unknown loss of volatile oil. The limit of 10 per cent for volatile Ether Extract named in the United States definition is certainly too low to apply to volatile oil.

In July and August of 1907, a collection of 145 samples of ground Cloves was made and is reported in Bulletin 173. It was found possible to classify only 52 per cent of this collection as undoubtedly genuine. On the other hand, the absence of legally established limits made it impossible to declare adulteration except in cases where foreign matters were present.

Although the work reported in Bulletins 73 and 173 furnishes material for a tentative scheme of assaying cloves, it was felt that some points needed further elucidation, and the present report is the result. The following conclusions seem to be justified as a study of the whole:—

1. The total ash of cloves, free from stems should not exceed 6 per cent.
2. Presence of stems considerably increases the Ash.
3. Ash insoluble in hydrochloric acid is very low in clove buds, not exceeding two or three-tenths of one per cent.
4. Addition of stems notably increases the acid-insoluble Ash.
5. The volatile oil of cloves is the most important character, and is at the same time the component which gives the spice its value as a condiment. Determination of volatile oil is complicated by the fact that any moisture (normally 6-7 p.c.) comes off with the oil; and attempts to dry the clove, necessarily result in loss of volatile oil.
6. The best way of drying cloves would appear to be the use of sulphuric acid in vacuo. The point at which the oil comes off in notable amount being indicated by discolouration of the acid.
7. The volatile oil of cloves should not be less than 14 per cent by weight of the cloves, and may reach 19 per cent.
8. The total volatile matter of cloves, consisting of water and volatile oil should not be less than 16 per cent, and may reach 25 per cent of the weight of the cloves.
9. The fixed oil of cloves, determined by extraction on the properly prepared sample should be about 10 per cent of the weight of the cloves, when estimated by loss. This component seems to be more variable than the others, and to be less affected by the commercial treatment of the clove for Eugenol.

On account of their high content in oil, manufacturers find it difficult (some say impossible) to grind cloves without addition of something to take up the excess of oil. For this purpose, Pimento (all-spice) seems the most in use; but clove-stems, and possibly certain starches, may be employed. The use of pimento, or other suitable matter, for such purpose does not constitute adulteration, provided that the article be sold as a compound or mixture. (R.S. 1906, Chap. 133, Sec. 24a).

Over one hundred samples of the present collection contain pimento, in amounts varying from a small percentage to apparently 30 or 40 per cent of the sample. This consideration with the fact that the cost of pimento is only about one-half the



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cost of the cloves, makes it evident that not only must the fact of admixture be declared, but a statement of the amount of each ingredient as well, in order that the public be properly informed as to the article supplied.

If we accept as normal such samples as contain not less than 14 per cent of volatile oil, 78 samples of this collection will be classed as normal. Among these, however, there are great differences in quality as may be seen below:—

14 to 15 p.c. volatile oil in..	27 samples.
16 to 17 “ “ ..	19 “
18 to 19 “ “ ..	22 “
20 or more p.c. “ ..	10 “

It would therefore appear reasonable to require a minimum of at least 14 per cent volatile oil for ground cloves. Many samples herein marked ‘normal’ exhibit large admixture of pimento starch; and since pimento contains from 3 to 6 per cent of Eugenol, it might be possible for a mixture of cloves having 20 per cent oil with pimento having 5 per cent oil, to contain 40 per cent of pimento and still yield 14 per cent of Essential Oil on analysis.

The following scheme of standards for Ground Cloves is suggested as consistent with the knowledge we possess of the commercial article:—

1. *Cloves*.—The flower-buds of *Caryophyllus Aromaticus*, L., containing not more than (5) per cent of Clove stems; dried but not otherwise treated.

2. *Ground Cloves*.—Cloves, reduced to powder by grinding, without addition of other matters; and possessing the following characters:—

	Per cent.
(a) Total ash, not exceeding ..	8
(b) Sand, not exceeding..	0.5
(c) Moisture, not exceeding..	10
(d) Volatile Oil, not less than..	14
(e) Tannic Acid, not less than..	12
(f) Crude fibre, not more than..	10

3. *Ground Cloves, compound or mixture*.—Cloves reduced to powder by grinding, in admixture with not more than 50 per cent of a harmless substance or substances of a stated nature.

The work now recorded will form the basis of recommendations for standardization of this article with as little delay as possible.

I beg to recommend publication of this as Bulletin No. 252.

I have the honour to be, Sir,

Your Obedient Servant,

A. MCGILL,

Chief Analyst.



Date of Collection.	Nature of Sample.	No of Sample.	Name and Address of Vendor.	Cost.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	

DISTRICT OF NOVA SCOTIA—

1912.						
Sept.	Ground Cloves.....	46841	Wentzell's, Ltd., Halifax, N.S.	$\frac{3}{4}$ lb..	25	.....
" 13	" .....	46842	Jno. P. Mott & Co., Halifax, N.S.	$\frac{3}{4}$ " ..	nil.	.....
" 13	" .....	46843	Nat. Drug & Chem. Co., Halifax, N.S.	$\frac{3}{4}$ " ..	25	.....
" 16	" .....	46844	Morrison & Williams, Halifax, N.S.	$\frac{3}{4}$ " ..	22	.....
" 17	" .....	46845	Bauld Bros., Ltd., Halifax, N.S.	$\frac{3}{4}$ " ..	18	.....
" 17	" .....	46846	A. L. Doyle & Co., Halifax, N.S.	$\frac{3}{4}$ " ..	21	.....
" 17	" .....	46847	Jas. Scott & Co., Halifax, N.S.	$\frac{3}{4}$ " ..	30	.....
" 18	" .....	46848	R. B. Seeton & Co., Halifax, N.S.	$\frac{3}{4}$ " ..	24	.....
" 19	" .....	46849	W. H. Schwartz, & Sons, Halifax, N.S.	$\frac{3}{4}$ " ..	20	.....
Oct. 7	" .....	46850	Payzant & King, Halifax, N.S.	$\frac{3}{4}$ " ..	30	.....

DISTRICT OF PRINCE EDWARD ISLAND—

Sept.	Ground Cloves.....	46267	R. T. Maddigan & Co., Charlottetown, P.E.I.	$\frac{3}{4}$ lb ..	30	.....
" 6	" .....	46268	J. G. Jamieson, Charlottetown, P.E.I.	$\frac{3}{4}$ " ..	48	.....
" 7	" .....	46269	A. Gates & Co., Charlottetown, P.E.I.	$\frac{3}{4}$ " ..	30	.....
" 9	" .....	46270	Coffin & Co., Charlottetown, P.E.I.	$\frac{3}{4}$ " ..	30	.....
" 10	" .....	46271	The 2 Mac's., Charlottetown, P.E.I.	$\frac{3}{4}$ " ..	30	.....
" 10	" .....	46272	The McKinnon Drug Co., Charlottetown, P.E.I.	$\frac{3}{4}$ " ..	40	.....
" 12	" .....	46273	W. W. Walker, Charlottetown, P.E.I.	$\frac{3}{4}$ " ..	30	.....
" 12	" .....	46274	J. G. Passmore, Charlottetown, P.E.I.	$\frac{3}{4}$ " ..	48	.....
" 14	" .....	46275	Reddin Bros., Charlottetown, P.E.I.	$\frac{3}{4}$ " ..	30	.....
" 17	" .....	46276	George Forbes, Vernon River Bridge.	$\frac{3}{4}$ " ..	24	.....



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GROUND CLOVES.

Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
Ash.		Volatile matter at 100°C.					Tannin.	Crude Fibre.	Microscopical Examination.		
Total.	Acid Insoluble.	Moisture.	Oil.	Total.	Fixed oil.	Total oil.					
R. J. WAUGH, INSPECTOR.											
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
6.35	0.30	5.90	17.75	23.65	3.80	21.55			A few stems.	46841	Normal.
5.35	0.20	7.45	16.75	22.20	3.75	20.50				46842	
5.80	0.15	5.85	16.95	22.80	3.85	20.80			A few stems and large amount of starch (Pim- ento).	46843	
5.35	0.15	3.90	13.50	17.40	3.95	17.45			A few stems and starch (Pimento).	46844	Low in essential oil.
5.65	0.20	5.50	14.35	19.85	4.40	18.75			Stems and starch (Pimento).	46845	Normal.
5.90	0.20	4.90	13.95	18.75	4.20	18.15			Numerous stems.	46846	
5.90	0.20	4.45	15.90	20.35	4.50	20.40			A few stems.	46847	
6.00	0.10	4.05	16.20	20.25	4.55	20.55			A few stems and a little starch (Pimento).	46848	
5.60	0.20	4.25	17.95	22.20	4.65	22.60			Stems and starch (Pimento).	46849	
6.00	0.15	4.05	17.75	21.80	4.45	22.20			Numerous stems and large amt. of starch (Pim- ento).	46850	
WM. A. WEEKS, INSPECTOR.											
5.90	0.20	6.55	14.80	21.35	2.85	17.65			A few stems.	46267	Normal.
5.60	0.20	6.05	18.10	24.15	3.25	21.35				46268	
5.50	0.10	6.70	17.40	24.10	3.30	20.70			Starch (Pimento).	46269	
6.00	0.25	6.75	15.95	22.70	3.20	19.15			Numerous stems and starch (Pim- ento).	46270	
5.80	0.20	6.45	15.80	22.25	3.80	19.60			A few stems.	46271	
5.55	0.15	6.85	13.35	20.20	3.55	16.90			A few stems and a little starch (Pimento).	46272	Low in essential oil.
5.25	0.15	7.20	12.20	19.40	3.60	15.80			Stems and starch (Pimento).	46273	
6.30	0.50	7.20	14.40	21.60	2.85	17.25			A few stems, tr- aces of starch (Pimento).	46274	Normal.
4.10	0.10	4.45	8.60	13.05	3.15	11.75	10.27	11.5	Large amt. of starch (Pimen- to).	46275	Very low in essen- tial oil.
5.90	0.25	6.50	15.50	22.00	3.15	18.65			A few stems.	46276	Normal.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	

DISTRICT OF BRUNSWICK—

1912.						
Sept.	4	Ground Cloves.....	50440 Dearborn & Co., St. John, N.B.	$\frac{3}{4}$ lb..	18	.....
"	4	" .....	50441 Puddington, Wetmore & Morrison, Ltd., St. John, N.B.	$\frac{3}{4}$ " ..	21	.....
"	4	" .....	50442 G. E. Barbour Co., Ltd., St. John, N.B.	$\frac{3}{4}$ " ..	27	.....
"	5	" .....	50443 H. W. Cole, Ltd., St. John, N.B.	$\frac{3}{4}$ " ..	21	.....
"	5	" .....	50444 McCready & Son, Ltd., St. John, N.B.	$\frac{3}{4}$ " ..	18	.....
Oct.	8	" .....	50445 James Burgess & Son, Grand Falls, N.B.	3 pkgs	30	.....
"	8	" .....	50446 Jas. F. McCluskey, Grand Falls, N.B.	3 "	30	"Purity" Brand.....
"	15	" .....	50447 Mills, Eveliegh Co., Ltd., Sussex, N.B.	$\frac{3}{4}$ lb..	27	"Signet" Brand.....
"	16	" .....	50448 Mrs. P. White, Moncton, N.B.	3 pkgs	25	"Pyramid" Brand.....
"	19	" .....	50449 A. Normand Desbrisay, Bathurst, N.B.	$\frac{3}{4}$ lb..	30	.....

DISTRICT OF QUEBEC—

Sept.	3	Ground Cloves.....	37212 Eudore Delisle, 2 Ave Tacheau, Quebec.	$\frac{3}{4}$ lb..	30	.....
"	4	" .....	37213 O. Lacroix, 19 Rue St. Joseph, Quebec.	$\frac{3}{4}$ " ..	30	.....
"	5	" .....	37214 W. Cantin, 133 Rue du Pont, Quebec.	$\frac{3}{4}$ " ..	30	.....
"	6	" .....	37215 G. Gingras, 268 Rue du Roi, Quebec.	$\frac{3}{4}$ " ..	30	.....
"	9	" .....	37216 Cantin & frère, 271 Rue St. Joseph.	$\frac{3}{4}$ " ..	30	.....
"	10	" .....	37217 C. S. Riverin, 50 Rue de la Couronne, Quebec.	$\frac{3}{4}$ . . .	30	.....



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GROUND CLOVES.

Results of Analysis.										No. of Sample	Remarks and Opinion of the Chief Analyst.
Ash.		Volatile matter at 100°C.			Fixed oil.	Total oil.	Tannin.	Crude fibre.	Microscopical Examination.		
Total.	Acid Insoluble.	Moisture.	Oil.	Total.							

J. C. FERGUSON, INSPECTOR.

p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
6.20	0.10	2.95	11.05	14.00	5.15	16.80			A few stems and a large amt. of starch (Pimento).	50440	Low in essential oil.
5.70	0.20	6.00	14.65	20.65	4.25	18.90			Numerous stems and a little starch (Pimento).	50441	Normal.
5.90	0.25	4.65	17.20	21.85	4.25	21.15			A few stems.	50442	
5.80	0.20	5.70	14.50	20.70	4.90	19.40			A few stems and a little starch (Pimento).	50443	
6.05	0.20	2.85	12.25	15.10	3.50	15.75			A few stems and a little starch (Pimento).	50444	Low in essential oil.
6.50	0.20	3.20	11.00	14.20	4.45	15.45			Numerous stems and a large amt. of starch (Pimento).	50445	
5.85	0.30	5.15	16.15	21.30	4.40	20.55			A few stems and a large amt. of starch (Pimento).	50446	Normal.
5.70	0.20	5.05	14.90	19.95	4.70	19.60			A few stems....	50447	
6.25	0.20	3.80	9.10	12.90	4.60	13.70	15.11	11.5	Stems and starch (Pimento).	50448	Very low in essential oil.
6.05	0.15	4.00	10.30	14.30	4.85	15.25	18.15	11.5	Traces of starch (Pimento).	50449	

F. X. W. E. BELAND, INSPECTOR.

5.40	0.45	4.15	9.60	13.75	6.35	15.95	9.67	11.5	A few stems and starch (Pimento)	37212	Very low in essential oil.
5.80	0.20	2.70	13.65	15.75	5.55	18.60	15.11	9.8	Numerous stems and starch (Pimento).	37213	Low in essential oil.
3.60	0.40	4.35	6.90	11.25	3.45	10.35	4.23	13.6	Stems and a large amt. of starch (Pimento).	37214	Very low in essential oil.
5.75	0.50	4.40	7.85	12.25	5.10	12.95	8.46	9.0	Starch (Pimento).	37215	
3.70	0.20	3.30	7.30	10.60	5.60	12.90	5.44	17.7	Stems and a large amt. of starch (Pimento).	37216	
3.90	0.15	4.35	6.95	11.30	4.50	11.45	6.04	21.2	Stems and starch (Pimento).	37217	



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	

DISTRICT OF QUEBEC—

1912.						
Sept. 11	Ground Cloves . . . .	37218	Myrand & Pouliot, 70 Rue de la Couronne, Quebec.	$\frac{3}{4}$ lb..	30	.....
" 12	" . . . .	37219	Arthur Drolet, 714 Rue St. Valier, Quebec.	$\frac{3}{4}$ " ..	30	.....
" 13	" . . . .	37220	A. Rinfret, 414 Rue St. Valier, Quebec	$\frac{1}{4}$ " ..	30	.....
" 16	" . . . .	37251	Hamel & Bedard, 728 Rue St. Valer, Quebec.	$\frac{3}{4}$ " ..	30	.....

DISTRICT OF ST. HYACINTHE—

Sept. 16	Ground Cloves . . . .	1454	Paul Rajotte, St. G. de Grant-ham.	$\frac{3}{4}$ lb..	30	.....
" 17	" . . . .	1455	Laperrière & fils, Pierreville...	$\frac{3}{4}$ " ..	19	.....
" 17	" . . . .	1456	J. E. Turbide, Yamaska East.	$\frac{1}{4}$ " ..	15	.....
" 18	" . . . .	1457	A. Casabon, Sorel.....	$\frac{3}{4}$ " ..	27	.....
" 20	" . . . .	1458	J. B. Carrean, St. Aime . . .	$\frac{3}{4}$ " ..	15	.....
" 25	" . . . .	1459	L. Gosselin, Henryville. . . .	$\frac{3}{4}$ " ..	28	.....
" 26	" . . . .	1460	W. A. Reynolds, Frelighsburg.	$\frac{3}{4}$ " ..	22	.....
" 27	" . . . .	1461	M. Lemire, Iberville. ....	$\frac{3}{4}$ " ..	20	.....
Oct. 1	" . . . .	1462	W. Murray & Co., Sherbrooke.	$\frac{3}{4}$ " ..	30	.....
" 8	" . . . .	1463	L. Minard, Eastman.....	$\frac{3}{4}$ " ..	25	.....

DISTRICT OF MONTREAL—

Oct. 1	Ground Cloves.....	51001	J. H. Labraude, 141 St. Viateur st., Montreal.	1 lb..	30	.....
" 1	" . . . .	51002	H. Ward, 108 St. Viateur st., Montreal.	1 " ..	30	.....



## SESSIONAL PAPER No. 14

## GROUND CLOVES.

## Results of Analysis.

Ash.		Volatile matter at 100°C.						Crude Fat.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Total.	Acid Insoluble.	Moisture.	Oil.	Total.	Fixed oil.	Total oil.	Tannin.				
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
5.80	0.59	4.59	15.35	19.85	4.35	19.70	18.13	10.0	Stems and traces of starch (Pimento).	37218	Normal.
3.80	0.20	2.80	9.25	12.05	6.90	16.15	4.83	15.5	Stems and starch (Pimento).	37219	Very low in essential oil.
5.45	0.10	3.05	18.10	21.15	4.45	22.55	18.73	9.2	A few stems...	37220	Normal.
5.15	0.25	4.75	19.25	24.00	4.30	23.55				37251	

## Concluded.

## J. C. ROULEAU, INSPECTOR

4.30	0.20	3.95	8.00	11.95	4.85	12.85	12.09	9.6	Stems and a large amount of starch (Pimento).	1454	Very low in essential oil.
4.55	0.20	3.60	11.60	15.20	5.35	17.15			A few stems and starch (Pimento).	1455	Low in essential oil.
5.80	0.50	4.65	9.30	13.95	5.85	15.15	11.48	9.7	A few stems and a large amount of starch (Pimento).	1456	Very low in essential oil.
5.90	0.40	4.50	9.30	13.80	4.50	13.80	14.59	19.5	Stems and starch (Pimento).	1457	
7.95	0.50	3.05	7.65	10.70	5.00	12.65	19.88	18.2	A few stems and a large amount of starch (Pimento).	1458	
4.05	0.10	4.05	7.75	11.80	6.85	14.60	7.25	18.5		1459	
5.80	0.30	4.95	14.70	19.65	4.35	19.95				1460	Normal.
5.50	0.35	5.15	18.95	24.10	4.70	23.65			Normal stems.	1461	
6.10	0.45	3.00	12.55	15.55	5.10	17.65			A few stems and a large amount of starch (Pimento).	1462	Low in essential oil.
6.60	0.35	4.25	13.55	17.80	4.75	18.35			A few stems and a little starch (Pimento).	1463	

## J. J. COSTIGAN, INSPECTOR.

3.65	0.35	4.60	8.75	13.35	5.35	14.10	9.06	10.6	Stems and a little starch (Pimento).	51001	Very low in essential oil.
6.20	0.50	6.35	15.35	21.70	3.09	18.35			Normal stems.	51002	Normal.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	

DISTRICT OF MONTREAL—

1912.						
Oct.	1	Ground Cloves.....	51003 E. Tessier, 70 Laurier ave. W., 1 lb.. Montreal.	30		.....
"	4	" .....	51004 T. J. Collins, St. Agathe de ¾ lb.. Monts.	30		.....
"	7	" .....	51005 W. Biltcliffe, 350 Victoria ¾ " .. ave., Westmount.	30		.....
"	8	" .....	51006 R. Bernard, 91 Lagauchetière ¾ " .. st. E., Montreal.	30		.....
"	8	" .....	51007 S. Dionne, 140 Dorchester E., ¾ " .. Montreal.	30		.....
"	10	" .....	51008 E. Dufour, Joliette, P.Q. .... ¾ " ..	30		.....
"	16	" .....	51009 Z. Lapointe, 54 Villeneuve st., ¾ " .. Montreal.	30		.....
"	11	" .....	51010 Lewis Reese, 393 Church ave., ¾ " .. Verdun, P.Q.	30		.....

DISTRICT OF OTTAWA—

Aug.	30	Ground Cloves.....	50252 McCuaig, Cheney & Co., Vank- ¾ lb.. leek Hill.	30		Labelled pure ground cloves.
"	31	" .....	50253 A. Meighan & Bro., Perth, 3 pkts Ont.	30		Labelled pure ground cloves, A. Meighan & Bro., Perth, Ont.
Sept.	4	" .....	50254 A. S. Moreland, Ottawa... 3 " ..	30		.....
"	4	" .....	50255 Geo. Agar, Ottawa..... 3 " ..	30		.....
"	4	" .....	50256 N. A. McCagg, Ottawa. .... 3 " ..	30		.....
"	4	" .....	50257 Alex. Phillips, Ottawa..... ¾ lb.. ¾	30		.....
"	5	" .....	50258 J. B. Bedard, Hull, P.Q..... ¾ " ..	30		.....
"	6	" .....	50259 Jas. McDougall, Brockville ... ¾ " ..	30		.....
"	7	" .....	50260 John Whitley, Prescott. .... ¾ " ..	30		.....
"	18	" .....	50261 E. H. Tallman, Merrickville... ¾ " ..	30		.....



## SESSIONAL PAPER No. 14

## GROUND CLOVES.

Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
Ash.		Volatile matter at 100° C.			Fixed oil.	Total oil.	Tannin.	Crude Fibre.	Microscopical Examination.		
Total.	Acid Insoluble.	Moisture.	Oil.	Total.							
<i>Concluded.</i>											
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
4.60	0.15	6.75	11.35	18.10	4.80	16.15			A few stems and starch (Pimento).	51003	Low in essential oil.
4.50	0.10	7.15	10.65	17.80	4.05	14.70			Stems and starch (Pimento).	51004	"
5.55	0.45	3.80	11.55	15.35	5.20	16.75			A few stems....	51005	"
4.90	0.20	3.75	8.50	12.25	3.70	12.20	10.88	12.0	A large amount of starch (Pimento).	51006	Very low in essential oil.
4.85	0.10	3.85	11.40	15.25	5.10	16.50			Stems and starch (Pimento).	51007	Low in essential oil.
4.55	0.10	3.75	12.80	16.55	6.75	19.55			"	51008	"
5.05	0.15	3.70	9.40	13.10	4.35	13.75	13.90	10.8	Stems and a large amount of starch (Pimento).	51009	Very low in essential oil.
5.00	0.20	4.10	12.25	16.35	6.20	18.45			"	51010	Low in essential oil.

J. A. RICKEY, INSPECTOR.

5.35	0.45	4.90	10.00	14.90	4.50	14.50			Stems and a large amt. of starch (Pimento).	50252	Low in essential oil.
5.50	0.20	6.35	16.80	23.15	3.10	19.90			A few stems....	50253	Normal.
5.45	0.20	6.35	16.70	23.05	3.20	19.90			A few stems and starch (Pimento).	50254	"
5.55	0.20	6.60	15.35	21.95	3.30	18.65			Stems and starch (Pimento).	50255	"
5.75	0.40	6.85	16.75	23.60	3.25	20.00			"	50256	"
5.45	0.60	6.50	11.50	18.00	2.90	14.40			"	50257	Low in essential oil; high in insoluble ash.
7.25	0.10	3.65	8.65	12.30	4.20	12.85			"	50258	Very low in essential oil.
6.70	0.25	2.90	12.50	15.40	3.40	15.90	16.92	10.8	Stems & a small amt. of starch (Pimento).	50259	Low in essential oil.
6.15	0.15	6.65	11.65	18.30	3.15	14.80			A few stems and a small amt. of starch (Pimento).	50260	"
6.55	0.40	6.90	11.30	18.20	3.20	14.50			Numerous stems	50261	"



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	
DISTRICT OF KINGSTON—						
1912.						
Sept. 3	Ground Cloves.....	50751	J. Campbell, Kingston.....	$\frac{3}{4}$ lb..	30	.....
" 9	" .....	50752	H. C. Hampton, Belleville...	$\frac{3}{4}$ " ..	30	.....
" 9	" .....	50753	S. R. Artis, Belleville.....	$\frac{3}{4}$ " ..	30	.....
" 9	" .....	50754	Wallbridge & Clark, Belleville.	$\frac{3}{4}$ " ..	30	.....
" 9	" .....	50755	C. Hilton, Belleville.....	$\frac{3}{4}$ " ..	30	.....
" 10	" .....	50756	The Thompson, Macdonald Co., Cobourg.	$\frac{3}{4}$ " ..	30	.....
" 10	" .....	50757	T. P. Harvey & Son, Cobourg..	$\frac{3}{4}$ " ..	30	.....
" 10	" .....	50758	W. D. Sephens, Port Hope....	$\frac{3}{4}$ " ..	35	.....
" 10	" .....	50759	F. Rosevear, Port Hope.....	$\frac{3}{4}$ " ..	30	.....
" 11	" .....	50760	J. Hill, Peterboro.....	$\frac{3}{4}$ " ..	30	.....
DISTRICT OF TORONTO—						
Sept. 13	Ground Cloves.....	51441	T. H. Coffin, Grange ave. and Denison st., Toronto.	$\frac{3}{4}$ lb..	30	Vendor said it was included in stock when purchased.
" 16	" .....	51442	Wm. Black, 1960 Queen st. east, Toronto.	$\frac{3}{4}$ " ..	27	.....
" 16	" .....	51443	Fred Hammer, 581 King st. west, Toronto.	$\frac{3}{4}$ " ..	30	.....
" 17	" .....	51444	C. Barrett, 964 Bloor st. west, Toronto.	$\frac{3}{4}$ " ..	25	.....
" 17	" .....	51445	T. W. Cole, 156 Dundas st, Toronto.	$\frac{3}{4}$ " ..	30	.....
" 20	" .....	51446	Towns & Nonis, Aurora.....	$\frac{3}{4}$ " ..	30	.....
Oct. 2	" .....	51447	O. W. Robbins, 164 Locke st. south, Hamilton.	$\frac{3}{4}$ " ..	30	.....
" 2	" .....	51448	John Forth, Queen & Charlton ave., Hamilton.	$\frac{3}{4}$ " ..	30	.....



## SESSIONAL PAPER No. 14

## GROUND CLOVES.

Results of Analysis.										Sample No.	Remarks and Opinion of the Chief Analyst
Ash.		Volatile matter at 100 C.			Fixed Oil.	Total Oil.	Tannin.	Crude Fiber.	Moisture and Insoluble.		
Total.	Acid Insoluble.	Moisture.	Oil.	Total.							

## JAS. HOGAN, INSPECTOR.

p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
5.95	0.30	3.85	18.40	22.25	4.00	22.40				50751	Normal.
4.45	0.10	6.00	4.50	10.50	0.10	4.60			Not cloves, All spice.	50752	Is not cloves.
6.40	0.50	4.55	16.15	20.70	3.80	19.90			A few stems....	50753	Normal.
6.95	0.45	4.50	14.00	18.50	3.40	17.40				50754	
7.40	0.35	3.10	14.40	17.50	4.65	19.05	15.11	9.0		50755	
6.05	0.20	3.80	19.80	23.60	3.70	23.30				50756	
5.30	0.15	3.10	21.10	24.60	4.40	25.50			A few stems and a little starch (Pimento).	50757	
5.60	0.20	3.40	21.75	25.15	4.15	25.20				50758	
5.80	0.25	4.40	15.30	19.70	4.00	19.30			A few stems and starch (Pim- ento).	50759	
6.40	0.40	4.00	18.65	22.65	4.50	22.55				50760	

## H. J. DAGER, INSPECTOR.

4.95	0.15	4.70	9.65	14.35	3.10	12.75	10.27	15.0	Numerous stems and a large amt. of starch (Pimento).	51441	Very low in essen- tial oil.
6.95	0.60	6.45	13.55	20.00	2.85	16.40			Stems. ....	51442	Low in essential oil; high insoluble ash
7.25	0.50	6.30	11.90	18.20	4.15	16.05			A small amt. of starch Pimen- to).	51443	Low in essential oil.
6.40	0.30	6.65	12.80	19.45	2.70	15.50			Stems and a large amt. of starch (Pimento).	51444	
6.65	0.45	4.25	8.65	12.90	2.80	11.45	12.60	15.8		51445	Very low in essen- tial oil.
6.75	0.20	6.75	12.15	18.90	2.70	14.85			Stems. ....	51446	Low in essential oil.
5.20	0.45	3.50	11.45	14.95	5.25	16.70				51447	"
5.85	0.25	5.85	16.60	22.45	4.80	21.40			Stems and traces of starch (Pim- ento).	51448	Normal.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	

DISTRICT OF TORONTO

1912						
Oct.	3	Ground Cloves.....	51449 J. J. Lynch, 185 Park st., Hamilton.	$\frac{3}{4}$ lb.	23	.....
"	3	" .....	51450 R. D. Saul, 124 James st. north, Hamilton.	$\frac{3}{4}$ " ..	23	.....

DISTRICT OF WINDSOR—

Oct.	2	Ground Cloves.....	48152 A. Duncan & Co., Wyoming..	$\frac{3}{4}$ lb..	30	.....
"	3	" .....	48162 R. Wanless & Co., Sarnia. ....	$\frac{3}{4}$ " ..	30	Todhunter's pure select cloves.
	4	" .....	48171 R. H. Davis, Strathroy.....	$\frac{3}{4}$ " ..	60	.....
	7	" .....	48174 G. A. Curtis, Simcoe.....	$\frac{3}{4}$ " ..	60	.....
"	7	" .....	48176 R. Edmunds, Simcoe.....	$\frac{3}{4}$ " ..	45	.....
"	7	" .....	48178 Oscar R. Hauselman, Simcoe..	$\frac{3}{4}$ " ..	38	.....
"	7	" ..	48179 G. J. Imeson, Simcoe.....	$\frac{3}{4}$ " ..	30	.....
"	7	" .....	48182 L. F. Aiken, Simcoe.....	$\frac{3}{4}$ " ..	45	.....
"	7	" .....	48184 G. O. Werrett, Simcoe.....	$\frac{3}{4}$ " ..	45	.....
"	8	" .....	48186 Ray P. Colburn, Tillsonburg..	$\frac{3}{4}$ " ..	30	.....
"	8	" .....	48188 Imrie & Stewardson, Tillson- burg.	$\frac{1}{2}$ " ..	30	.....

DISTRICT OF MANITOBA—

Sept.	17	Ground Cloves.....	48701 R. Seymour, Sargent ave., Winnipeg.	$\frac{3}{4}$ lb..	30	.....
"	17	" .....	48702 MacKenzie & Reeve, Winni- peg.	$\frac{3}{4}$ " ..	30	.....



SESSIONAL PAPER No. 14  
GROUND CLOVES.

Results of Analysis.										No. of Sample	Remarks and Opinion of the Chief Analyst.
Ash.		Volatile matter at 100° C.			Fixed oil.	Total oil	Tannin.	Crude Fibre.	Microscopical Examination.		
Total.	Acid Insoluble.	Moisture.	Oil.	Total.							

Concluded.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
6.25	0.20	5.10	19.10	24.20	4.50	23.60			A few stems....	51449	Normal.
5.80	0.50	5.00	18.80	23.80	5.30	24.10			A few stems and traces of starch (Pimento).	51450	

JNO. TALBOT, INSPECTOR.

5.35	0.10	4.75	16.85	21.60	4.25	21.10			Stems and large amt. of starch (Pimento).	48152	Normal.
4.70	0.20	5.40	19.80	25.20	4.15	23.95			Trace of Moisture of Cloves starch.	48162	
6.10	0.15	4.50	14.30	18.80	3.00	17.90			A few stems and a little starch (Pimento).	48171	
5.90	0.20	4.10	15.30	20.00	4.30	20.20			Numerous stems and a large amt. of starch (Pimento).	48174	
6.95	0.40	4.65	11.55	16.20	4.25	15.80			Numerous stems	48176	Low in essential oil.
4.65	0.15	4.75	20.15	24.90	4.10	24.25			A few stems....	48178	Normal.
4.65	0.10	3.85	17.75	21.60	4.40	22.15			A few stems and a large amt. of starch (Pimen- to).	48179	
5.35	0.20	4.20	16.60	20.80	4.35	21.15			A few stems and a little starch (Pimento).	48182	
5.00	0.30	3.70	18.50	22.20	4.20	22.70				48184	
4.80	0.30	3.20	10.65	13.85	5.35	16.00			Stems and a large amt. of starch (Pimento).	48186	Low in essential oil.
4.90	0.10	4.10	15.65	19.75	5.80	21.45			A few stems and starch (Pimen- to).	48188	Normal.

A. C. LARIVIÈRE, INSPECTOR.

5.55	0.15	6.35	18.45	24.80	2.70	21.15			A few stems ...	48701	Normal.
6.65	0.40	3.65	13.45	17.10	3.40	16.85	21.15	9.7	...	48702	Low in essential oil.



Date of Collection.	Nature of Sample.}	No. of Sample.	Name and Address of Vendor.	Cost.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	

DISTRICT OF MANITOBA—

1912.						
Sept. 17	Ground Cloves . . .	48703	Conley & Yost, Winnipeg.....	$\frac{3}{4}$ lb..	30	.....
" 19	" . . . . .	48704	C. A. Whitman, Emerson.....	$\frac{3}{4}$ " ..	20	.....
" 20	" . . . . .	48705	Campbell Bros. & Wilson, Win- nipeg.	3 tins.	nil .	.....
" 20	" . . . . .	48706	The Dyson Co., Winnipeg.....	$\frac{3}{4}$ " ..	"	.....
" 20	" . . . . .	48707	White Star Mfg. Co., Winni- peg.	3 tins.	"	.....
" 20	" . . . . .	48708	Gold Standard Mfg. Co., Win- nipeg.	$\frac{3}{4}$ lb..	"	.....
" 23	" . . . . .	48709	P. Nelson, Winnipeg.....	3 tins.	30	.....
" 23	" . . . . .	48710	W. H. Morgan, Winnipeg ....	$\frac{3}{4}$ lb.	30	.....

DISTRICT OF NELSON—

Sept. 3	Ground Cloves... .	49688	Union Cash Grocery, Nelson, B.C.	3 tins.	40	.....
" 3	" . . . . .	49691	Bell Trading Co., Nelson, B.C.	$\frac{3}{4}$ lb..	30	.....
" 6	" . . . . .	49703	G. B. Armstrong, Merritt, B.C.	3 tins.	45	.....
" 6	" . . . . .	49708	Merritt Merc. Co., Merritt, B.C.	$\frac{3}{4}$ lb..	30	.....
" 6	" . . . . .	49714	Merritt Ind. & Co-op. Society, Merritt, B.C.	3 tins.	30	.....
" 9	" . . . . .	49722	L. C. Masson, Revelstoke, B.C.	3 " ..	45	.....
" 9	" . . . . .	49727	Bourne Bros., Revelstoke, B.C.	$\frac{3}{4}$ lb..	40	.....
" 23	" . . . . .	49748	C. A. Warren, Golden, B.C....	3 tins.	40	.....
" 23	" . . . . .	49756	H. G. Parson, Ltd., Golden, B.C.	3 " ..	30	.....
" 23	" . . . . .	49761	C. R. Lumber Co., Golden, B.C.	3 " ..	45	.....



## SESSIONAL PAPER No. 14

## GROUND CLOVES.

Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
Ash.		Volatile matter at 100 C.			Fixed oil.	Total oil.	Tannin.	Crude Fibre.	Microscopical Examination.		
Total.	Acid Insoluble.	Moisture.	Oil.	Total.							
Concluded.											
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
7.70	0.80	3.85	10.70	14.55	6.10	16.80			A few stems and a small amount of starch (Pimento).	48703	Low in essential oil, high insoluble ash
7.15	0.30	6.40	19.10	25.50	2.85	21.95			"	48704	Normal.
4.90	0.25	6.15	21.35	27.50	3.75	25.10	16.92	8.9	Stems	48705	
5.15	0.20	5.70	12.75	18.45	4.35	17.10			A few stems	48706	Low in essential oil.
5.60	0.10	6.45	14.40	20.95	3.10	17.50			"	48707	Normal.
5.60	0.10	5.10	20.15	25.25	3.35	23.50			"	48708	
7.45	0.60	3.50	13.55	17.05	6.15	19.70			A few stems and starch (Pimento)	48709	Low in essential oil, high insoluble ash
5.75	0.10	6.00	11.05	20.05	3.45	17.50			Stems and traces of starch (Pimento).	48710	Normal.
THOS. PARKER, INSPECTOR											
6.50	0.20	4.20	12.30	16.50	4.40	16.70			Stems.	49688	Low in essential oil.
4.80	0.10	4.30	18.60	22.90	4.85	23.45			A few stems and a little starch (Pimento).	49691	Normal.
5.75	0.35	4.30	15.90	20.20	5.60	21.50			"	49703	
.	.	.	.	.	.	.	.	.		49708	Sample lost.
4.75	0.20	4.55	21.50	26.05	5.45	26.95			Traces of starch (Pimento).	49714	Normal.
5.30	0.30	5.45	19.25	25.80	5.10	24.35			A few stems and a little starch (Pimento).	49722	
3.25	0.10	4.65	10.50	15.10	4.25	14.75	6.65		Stems and a very large amount of starch (Pimento).	49727	Low in essential oil.
5.30	0.30	4.85	19.10	23.95	6.20	25.50			A few stems...	49748	Normal.
5.25	0.25	5.30	20.20	25.50	3.85	24.05	16.92	8.3	A few stems and a little starch (Pimento).	49756	
6.70	0.40	4.45	12.65	17.10	4.10	16.75			Stems and a little starch (Pimento)	49751	Low in essential oil,

Sample destroyed in transit.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	

DISTRICT OF VANCOUVER—

1912.						
Sept. 20	Ground Cloves...	38419	London Grocery Co., Granville St. Vancouver, B.C.	3 tins.	30	This Tin contains nothing but spice of the finest quality.
" 20	" .....	38420	Jardine & Dickinson, Kerrisdale, B.C.	3 "	25	Guaranteed absolutely pure.
" 20	" .....	38421	A. C. Bartig, 8th Ave. & Granville St., Vancouver, B.C.	$\frac{3}{4}$ lb...	30	.....
" 20	" .....	38422	Merilees Grocery, 2640 Main St., Vancouver, B.C.	3 tins.	25	.....
" 20	" .....	38423	Efford Bros., 244 Broadway E., Vancouver, B.C.	$\frac{3}{4}$ lb...	30	.....
" 21	" .....	38424	Kelly's Grocery, 2333 Main St., Vancouver, B.C.	$\frac{3}{4}$ " ..	30	.....
" 23	" .....	38425	F. Fillion, Carral St., Vancouver, B.C.	$\frac{3}{4}$ " ..	30	.....
" 23	" .....	38426	F. Ayling, Cedar Cottage, Vancouver, B.C.	$\frac{3}{4}$ " ..	30	.....
" 23	" .....	38427	Lyons Grocery, Commercial Drive Vancouver, B.C.	3 tins.	45	Guaranteed to be the finest quality and full strength.
" 23	" ..	38428	J. Main, Commercial [Drive, Vancouver, B.C.	$\frac{3}{4}$ lb...	30	.....

DISTRICT OF VICTORIA—

Sept. 10	Ground Cloves.....	49178	Windsor Grocery Co., 817 Douglas St., Victoria, B.C.	3 tins.	30	.....
" 11	" .....	49179	The West-End Grocery Co., Ltd., 1002 Government St., Victoria, B.C.	3 "	30	"Empress" Brand.
" 12	" ..	49180	Copas & Young, 631 Fort St., Victoria, B.C.	3 "	25	Anti-Combine Brand.



SESSIONAL PAPER No. 14  
GROUND CLOVES.

Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
Ash.		Volatile matter at 100 C.			Fixed oil.	Total oil.	Tannin.	Crude Fibre.	Microscopical Examination.		
Total.	Acid Insoluble.	Moisture.	Oil.	Total.							

J. F. POWER, INSPECTOR.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
5.85	0.30	5.10	16.00	21.10	4.65	20.65	...		Stems and a little starch. (Pi-mento).	38419	Normal.
4.50	0.15	4.30	21.70	26.00	4.05	25.75			A few stems and starch. (Pi-mento).	38420	
5.05	0.20	5.45	12.25	17.70	4.75	17.00			A large amount of starch. (Pi-mento).	38421	Low in Essential oil.
4.90	0.20	4.95	21.35	26.30	4.00	25.35	18.73	8.0	A few stems and traces of starch. (Pi-mento).	38422	Normal.
5.20	0.20	3.65	12.85	16.50	5.05	17.90			Starch. (Pi-mento).	38423	Low in Essential oil.
5.65	0.25	4.15	13.20	17.35	4.80	18.00			A large amount of starch. (Pi-mento).	38424	
6.45	0.20	4.70	13.15	17.85	4.70	17.85			A few stems and a large amount of starch. (Pi-mento).	38425	
5.60	0.15	5.40	18.00	23.40	4.25	22.25				38426	Normal.
5.10	0.20	5.10	22.50	27.60	3.90	26.40			A few stems ...	38427	
5.90	0.40	5.25	15.50	20.75	4.40	19.90			A few stems and starch. (Pi-mento).	38428	

D. O'SULLIVAN, INSPECTOR.

5.05	0.20	6.10	14.65	20.75	4.60	19.25	...		A few stems and starch. (Pi-mento).	49178	Normal.
35	0.10	5.40	19.50	24.70	4.05	23.35			A few stems and a large amount of starch. (Pi-mento).	49179	
00	0.60	6.60	16.75	23.35	3.80	20.55	...		Numerous stems and a little starch. (Pi-mento).	49180	Normal except as to insoluble ash.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	

DISTRICT OF VICTORIA—

1912.						
Sept. 16	Ground Cloves. . . .	49181	Acton Bros., 1217 Douglas St., Victoria, B.C.	3 tins.	30	"Empress" Brand.....
" 16	" . . . .	49182	H. & K. Grocery, Victoria, B.C.	3 lb.	30	" . . . . .
" 19	" . . . .	49183	Harrison & McDonald, 1218 Douglas St., Victoria, B.C.	$\frac{3}{4}$ lb...	30	. . . . .
" 20	" . . . .	49184	F. E. Plummer, 1118 Sundra St., Victoria, B.C.	3 tins.	30	"St. James" Brand.....
" 25	" . . . .	49185	Erskine & Co., 861 Johnston St., Victoria, B.C.	3 " .	30	"Victoria" Brand.....
Oct. 15	" . . . .	49186	Henry W. Driver, 856 Yates St., Victoria, B.C.	3 " .	30	"Gauntlet" Brand.....
" 15	" . . . .	49187	W. A. Jameson Coffee Co., 754 Broughton St., Victoria, B.C.	$\frac{3}{4}$ lb...	30	. . . . .



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GROUND CLOVES.

Results of Analysis.										No. of Sample	Remarks and Opinion of the Chief Analyst.
Ash.		Volatile matter at 100 C.			Fixed oil.	Total oil.	Tannin.	Crude Fibre.	Microscopical Examination.		
Total.	Acid Insoluble.	Moisture.	Oil.	Total.							

Continued.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
5.40	0.20	6.15	18.75	24.90	3.75	22.50			A few stems and a little starch. (Pimento).	49181	Normal.
5.50	0.20	6.20	18.25	24.15	3.90	22.15			Numerous stems and a little starch. (Pi- mento).	49182	
5.30	0.30	5.90	15.40	21.30	3.95	19.35			Stems (Pi- mento).	49183	
5.00	0.15	5.65	19.10	24.75	4.10	13.20			A few stems and a little starch. (Pimento).	49184	
5.10	0.30	6.10	14.35	20.45	4.40	18.75			Stems and starch (Pimento).	49185	
5.10	0.20	6.45	19.00	25.05	3.70	21.50			A few stems and traces of starch. (Pimento).	49186	
6.75	0.35	3.60	13.80	17.40	5.10	18.00			Numerous stems and starch. (Pimento).	49187	Low in Essential oil.



## APPENDIX Q.

## BULLETIN No. 253—TURPENTINE SOLD AS A DRUG.

OTTAWA, March 20, 1913.

WM. HIMSWORTH, Esq.,  
Acting Deputy Minister, Inland Revenue.

SIR,—I have the honour to hand you a report dealing with 158 samples of Turpentine. purchased as a drug throughout Canada, in February and March of last year.

Quite extensive work done upon turpentine in these laboratories will be found published as Bulletin No. 79 (1901) and as Bulletin No. 211 (1910). The work referred to had for its object the ascertainment of such constants for turpentine (as used in the arts), as would enable a legal definition for such turpentine to be formulated.

An order in council passed in June, 1912, added turpentine to the fourth schedule of the Adulteration Act; and is published in Circular G. 1022 of this department.

## PRIVY COUNCIL, CANADA.

AT THE GOVERNMENT HOUSE AT OTTAWA,

THURSDAY, the 6th day of June, 1912.

PRESENT:

HIS ROYAL HIGHNESS THE GOVERNOR GENERAL IN COUNCIL.

His Royal Highness the Governor General in Council, in virtue of the provisions of section 27 of chapter 133, Revised Statutes of Canada, 1906, 'An Act respecting the Adulteration of Food and other Articles.' is pleased to order as follows:—

Turpentine is hereby added to section 4 of the above described Act and the definition thereof shall be as hereinafter set forth:—

## STANDARDS FOR TURPENTINE.

I. When turpentine is sold as a drug, for medical purposes or to the order of a physician, it shall meet pharmacopœal requirements as provided by section 7 of the said Act.

II. When turpentine is sold under any other conditions than for purposes of medicine, as above, it shall meet the following requirements:—

(1) It shall be entirely free from mineral oil.



(2) Unless sold as wood turpentine, it shall absorb not less than 340 times its weight of iodine (Huhl solution and method). If sold as wood turpentine it shall absorb not less than 240 times its weight of iodine by the same method.

(4) The refractive index of this residue shall be not less than 1.4950 at 20 deg. C.

(6) The specific gravity of the sample at 20 deg. C. shall not be less than 0.860.

(8) At least 75 per cent by volume shall distill below 160 deg. C.

RODOLPHE BOUDREAU,  
*Clerk of the Privy Council.*

But turpentine is also in use as a drug; and for its definition in this regard we must refer to the pharmacopœias....

‘The oil distilled, usually by the aid of steam, from the oleo-resin (turpentine) obtained from *Pinus Sylvestris*, and other species of *pinus*; rectified if necessary. Limpid, colourless, with a strong, peculiar odour, which varies in the different kinds of oil, and a pungent and somewhat bitter taste. It is soluble in its own volume of glacial acetic acid. It commences to boil at about 160 deg. C. and almost entirely distills below 180 deg. C. little or no residue remaining.’

Other specific tests require it to be free from petroleum benzine, kerosene, or similar hydrocarbons.

Forty-one samples of the collection now reported, contain petroleum, and are therefore adulterated under section 7 of the Act. Four other samples are adulterated inasmuch as they fail to meet pharmacopœical requirements, although the character of the adulterant or adulterants is not so clearly made out. Five other samples I have judged 'doubtful,' and one sample is evidently a wood turpentine, and must therefore be regarded as adulterated. These results may be summarized thus:—

	Samples
Altered, as containing petroleum	41
"                    "                    "                    "	4
"                    "                    "                    "	1
Doubtful	5
Apparently genuine	107
<b>Total</b> .....	<b>158</b>



4 GEORGE V., A. 1914

The instructions issued to our inspectors required them to purchase turpentine in drug stores, and as used for dispensing.

These instructions appear not to have been closely followed in all cases. The inspector's reports show that in Nova Scotia one sample was accepted, although the vendor stated that he sold the article for "commercial purposes only," which may be understood to mean technical purposes only.

In Quebec all of the vendors declared that the article offered by them was dispensed only for "External use."

It may be remarked that the Pharmacopoeias do not distinguish between turpentine for external and for internal uses.

Correspondence with vendors, subsequent to examination of the article sold, brings statements from many to the effect that they sell turpentine for painters' use, or for removing stains from clothing, and not to any extent for medicinal purposes.

It is perfectly well known that the principal uses of turpentine are such technical uses as in paint or varnish, in shoe polishes, stain removers, etc. Even here it should be true turpentine as defined by Order in Council of June 6, 1912, quoted above.

The presence of petroleums (mineral oils) is equally an adulteration of turpentine whether this is sold for medicinal purposes or for uses in the arts.

This is the main adulteration of turpentine at present; and is evidently the result of a desire to find a market for cheap petroleum fractions at the price of turpentine.

It has been asserted that the intermixture of small percentages of petroleums does not injure turpentine for painters' use.

This statement is very difficult to believe when we consider the different behaviour of terpenes and petroleums to oxygen; but even were it true, the purchaser should be able to buy turpentine when he asks for turpentine, and pays the price of that article. If he desires to add petroleum to it, he can easily purchase the petroleum at its market price, and mix as he may please.

Or, if he is offered a mixture of turpentine with petroleums, the true character of such mixture should be made known to him at the time of sale, and it should not be offered him as turpentine.

Turpentine appears not to be made in Canada.: A large importing house in Montreal writes under date March 29: "Turpentine is an article that it is impossible for the jobber in Canada to control, as there is no turpentine manufacturer in this country; and if it is the intention of the government to prevent adulterated turpentine to be sold in this country, why do they not stop its importation? All the turpentine that we buy is bought for pure; and if it is not pure it is a matter that we have no control over whatever. We think, therefore, that the labour you have gone to, as far as turpentine is concerned, is wasted." This statement is echoed by several other correspondents.

If it be indeed true that Canada has no control over the quality of the article turpentine, the case is a sad one; and it should lead to renewed effort on the part of manufacturers to try still further to obtain a good wood turpentine from the extensive raw materials which are found in our country.

I have seen very good turpentine of Canadian manufacture, produced in experimental plants; and am not without hope that the production of turpentine may yet become a successful Canadian industry.



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But, even should we be compelled to rely upon the imported article, it is certain that genuine turpentine is obtainable, if sufficient care in testing samples be taken. This is evidenced by the present report, in which 106 samples out of 158 are found to be pure. That adulterated turpentine is very widely found upon the United States markets is proved by the reports issued by the various Experiment Stations; and the following Notices of Judgment obtained in American courts, and published from Washington, are instructive:—

Notice of judgment.	Manufacturer.	Penalty.
No.		
220	Carolina Pine Products Co.	Goods forfeited.
218	Heekins Turpentine	Fine \$5.
337		" \$10.
339	Gulf Man. Co., Louisiana	" \$10 and costs.
877	South Carolina Co.	" \$50.
929		Bond given \$100.
1022		Goods destroyed.
1124		
1373	Barclay Naval Stores Co.	Bond given \$100.
1443		Fine \$20 and costs.
1608	Carolina Pine Products Co.	Goods destroyed.
2109	U.S. Turpentine & Co., N.Y.	Suspended sentence.

In all the above cases, adulteration consisted in admixture of mineral oil in amount varying from 3 per cent to 35 per cent.

I am convinced that most of the importers and distributors of turpentine named in this report, and probably all of the immediate vendors, believed themselves to be supplying genuine turpentine, or, at least, the best article procurable. If this report does nothing more than expose the facts of the case it will, I think, be justified, and if it leads Canadian importers of turpentine to take necessary precautions to procure a genuine article, and to refuse to buy adulterated goods, it will have performed a valuable service to the community. If we have not home-produced turpentine in Canada, we have at least home-produced petroleum and can make such additions of that article as we may think desirable.

As this is the first inspection of turpentine since its legal definition by Order in Council, I think it not unreasonable, in view of this fact, and of the above considerations, to suggest that no legal action be taken by the Department; but that the information furnished be regarded as advisory.

I beg to recommend publication of this report as Bulletin No. 253.

I have the honour to be, Sir,

Your Obedient Servant,

A. MCGILL,

*Chief Analyst.*



BULLETIN No. 253—TABLE 1, PART I—TURPENTINE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.		Cost.	Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).	Remarks and Opinion of the Chief Analyst.
						Quantity.	Manufacturer.		
DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.									
1912.									
Feb- 9	Turpentine..	47001	H. E. Jones, Digby, N.S..	1 pt..	30	Unknown	W. H. Thorne, St. John, N.B.	.....	Genuine.
" 16	"	47002	Nat. Drug & Chem. Co., Halifax, N.S.	1 "	30	Caroline Pine Tar Products Co., N.Y.	Manufacturers.....	.....	Contains petroleum
" 19	"	47003	Brown Bros. & Co., Halifax, N.S.	1 "	30	Unknown	Imperial Oil Co., Halifax, N.S.	.....	Genuine.
" 19	"	47004	G. A. Burbidge, Halifax, N.S.	1 "	25	"	Nat. Drug Co., Halifax, N.S.	Sold for commercial purposes only.	Contains petroleum.
" 19	"	47005	E. S. Blackie, Halifax, N.S..	1 "	20	"	"	.....	" "
" 19	"	47006	Buckley Drug Co., Halifax, N.S.	1 "	25	"	Imperial Oil Co., Halifax, N.S.	.....	Genuine.
" 19	"	47007	Jas. D. Walsh, Halifax, N.S..	1 "	20	"	Nat. Drug Co., Halifax, N.S.	.....	Contains petroleum.
" 19	"	47008	G. McD. Taylor, Halifax, N.S.	1 "	30	"	"	.....	"
" 22	"	47009	G. C. McDougall, Kentville, N.S.	1 "	25	"	Canadian Drug Co., St. John, N.B.	.....	Genuine.
" 29	"	47010	J. J. Kinley, Lunenburg, N.S.	1 "	20	"	S. E. Mack, Lunenburg, N.S.	.....	"
DISTRICT OF PRINCE EDWARD ISLAND—WM. A. WEEKS, INSPECTOR.									
Feb. 6	Turpentine..	46116	Reddin Bros., Charlottetown, P.E.I.	1 pt..	30	.....	Fennel & Chandler, Charlottetown, P.E.I.	.....	Genuine.
" 6	"	46117	J. G. Jamieson, Charlottetown, P.E.I.	1 "	90	Lymans, Ltd., Montreal.	.....	.....	"



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9	46118	McKinnon Drug Co., Charlotte- town, P.E.I.	1	35	Unknown	W. H. Thorne, St. John, N.B.	Contains petroleum.
9	46119	The Two Mac's, (Geo. Macdon- ald) Charlottetown, P.E.I.	1	30			"
12	46120	C. D. Rankin, Charlottetown, P.E.I.	1	20		S. W. Cribble, Charlotte- town, P.E.I.	Genuine.
12	46121	Johnson & Johnson, Charlotte- town, P.E.I.	1	25		Rogers Hardware Co., Ltd., Ch. Town, P.E.I.	"
15	46122	Charles, Ltd., Summerside, P.E.I.	1	25			Not genuine.
15	46123	P. N. Egan, Summerside, P.E.I.	1	25		Brown, McKay & Co., Summerside, P.E.I.	Genuine.
21	46124	H. J. Maben, Summerside, P.E.I.	1	35	Nat. Drug & Chem. Co., Halifax, N.S.	Manufacturers	Contains petroleum.
21	46125	Dr. A. McDonald, Summerside, P.E.I.	1	30	Canadian Drug Co., St. John, N.B.	"	Genuine.

## DISTRICT OF NEW BRUNSWICK J. C. FERGUSON, INSPECTOR.

Feb. 13	Perpetrate	46126	Eden Brown, St. John, N.B.	1 pint	20	S. Hayward Co., St. John	Genuine
13		46127	A. C. Smith & Co., St. John, N.B.	3	20	Nat. Drug & Chem. Co., Quebec	"
13		46128	The Nat. Drug & Chem. Co., N.B.	3	20	Unknown	Imported by Vendors from Southern States.
13		46129	Wm. Hawker & Son, N.B.	3	20	W. H. Thorne & Co., St. John, N.B.	"
27		46130	Johnston & Johnston, St. John, N.B.	3	20	DeWitt Bros., St. John, N.B.	"
Mar. 9		46131	Chas. A. Barclay, Fredericton, N.B.	3	30	Joe Nail & Sons, Fred- ericton, N.B.	Contains petroleum.
6		46132	The Bard Co., Ltd., Windsor, N.B.	3	10	Canadian Pure Products Co., Cleveland, Ohio.	"
12		46133	J. Sharp, St. John, N.B.	3	20	W. H. Thorne & Co., St. John.	"
13		46134	Fullweather Bros., Moncton, N.B.	3	20	Sumner & Co., Moncton, N.B.	Genuine.
14		46135	A. E. Shaw, Newcastle, N.B.	3	20	Nat. Drug & Chem. Co., St. John.	"



BULLETIN No. 253—TABLE I, PART I.—TURPENTINE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion.)	Remarks and Opinion of the Chief Analyst.
				Quantity.	Manufacturer.	Furnisher.		

DISTRICT OF QUEBEC—F. X. W. E. BELAND, INSPECTOR.

1912.									
Feb.	5	Turpentine..	37338	David Gagnon, 30 Rue St. Pierre, Que.	1 pint	25	Unknown.....	J. M. Noel, Quebec.....	For external use.
"	5	"	37339	Dr. Ed. Morin, 112 Cote La-montagne St., Que.	1 "	25	"	Comp. Chimie, Quebec...	"
"	5	"	37340	J. E. Livernois, St. Jean & Bouillard, Quebec.	1 "	23	Imperial Oil Co., Quebec	Mfrs.....	"
"	5	"	37341	"	1 "	67	Unknown....	Unknown.....	"
"	5	"	37342	F. C. Lachevrotière, 234 Rue St. Jean, Quebec.	1 "	75	"	Ed. Drum, Quebec.....	"
"	5	"	37343	"	1 "	150	"	Lynmans, Ltd., Montreal	"
"	5	"	37344	A. L. Jolicoeur, 338 Rue St. Jean, Quebec.	1 "	25	"	Unknown .. .	"
"	5	"	37345	A. E. Francoeur, 379 Rue St. Jean, Quebec.	1 "	60	"	W. Brunet & Cie, Quebec	Contains petroleum.
"	8	"	37346	L. E. Martel, 51 Rue St. Joseph, Quebec.	1 "	20	"	Unknown.....	Doubtful.
"	8	"	37347	Estate G. P. Plamondon, 1221 Rue St. Joseph, Quebec.	1 "	20	"	J. E. Martineau, Quebec	Genuine.



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DISTRICT OF ST. HYACINTHE, J. C. ROULEAU, INSPECTOR.

Feb. 19 Turpentine.	3001 Dr. Camet, Parthenay	1 pint	40	Lyons, Ltd., Montreal	Genuine.
" 20 "	3002 P. P. Schmitt, St. Jean	1 "	20	Lyons Knos & Co., Montreal	Contains petroleum.
" 25 "	3003 Dr. Girard, Drummondville	1 "	30	N. D. & Co., Montreal	"
Mar. 5 "	3004 L. E. Brown, Groulx	1 "	40	Unknown	"
" 7 "	3005 J. W. Johnson, Comptonsville	1 "	20	Lyons, Ltd., Montreal	"
" 12 "	3006 P. P. Schmitt, Parthenay	1 "	30	Lyons, Ltd., Montreal	Genuine.
" 19 "	3007 P. P. Schmitt, Parthenay	1 "	40	Lyons Knos & Co., Montreal	Contains petroleum.
" 19 "	3008 Dr. J. B. Brown, Comptonsville	1 "	30	N. D. & Co., Montreal	"
" 20 "	3009 P. P. Schmitt, Parthenay	1 "	40	Unknown	"
" 21 "	3010 John W. Brown, Montreal	1 "	30	Lyons, Ltd., Montreal	Genuine.

DISTRICT OF MONTREAL, J. C. ROULEAU, INSPECTOR.

Feb. 6 Turpentine.	32086 J. A. D. G. Brown, 100 St. Jean	1 pint	40	Lyons, Ltd., Montreal	Genuine.
" 6 "	32087 S. C. Brown, 100 St. Jean	1 "	40	Unknown	"
" 7 "	32088 R. M. Brown, 100 St. Jean	1 "	40	Unknown	"
" 8 "	32089 M. P. Brown, 100 St. Jean	1 "	40	Unknown	Boiled.
" 8 "	32090 L. G. Brown, 100 St. Jean	1 "	40	Unknown	Contains petroleum.
" 8 "	32091 C. L. Brown, 100 St. Jean	1 "	40	Unknown	Genuine.
" 8 "	32092 H. D. Brown, 100 St. Jean	1 "	40	Unknown	Boiled.
" 8 "	32093 O. Brown, 100 St. Jean	1 "	40	Unknown	Contains petroleum.
" 8 "	32094 D. Brown, 100 St. Jean	1 "	40	Unknown	"
" 8 "	32095 L. Brown, 100 St. Jean	1 "	40	Unknown	"



BULLETIN No. 253—TABLE I, PART I—TURPENTINE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Remarks and Opinion of the Chief Analyst.
				Quantity.	Manufacturer.	Furnisher.		
				Cents.				

DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.

1912.								
Feb. 7..	Turpentine..	50101	Medical Hall, Cornwall.....	1 pt.	30	Unknown .....	Queen City Oil Co ...	Genuine.
" 9..	"	50102	Brock Ostrom & Son, Alexan dria.	1 "	30	" .....	Lymans, Ltd., Montreal.	"
" 12..	"	50103	E. J. Durocher, Ottawa.....	16 ozs.	20	" .....	Ottawa Paint Works, Ottawa.	Not genuine.
" 13..	"	50104	The People's Drug Co., Ltd., Renfrew.	16 "	20	" .....	Queen City Oil Co., Ottawa.	Genuine.
" 13..	"	50105	Jas. Clark, Renfrew ...	16 "	20	" .....	Lymans, Ltd., Montreal.	"
" 19..	"	50106	Jos. G. Valiquette, Dalhousie St., Ottawa.	1 pt.	25	" .....	Queen City Oil Co., Ottawa.	"
" 20..	"	50107	Allen & Cochrane, Ottawa. ..	16 ozs.	15	" .....	"	"
" 20..	"	50108	T. A. Brownlee, Ottawa ...	1 pt.	20	" .....	"	"
" 20..	"	50109	W. A. Henderson, Ottawa.....	1 "	20	" .....	Ottawa Drug Co., Ottawa.	Contains petroleum.
" 21..	"	50110	Beattie & Argue, Bronson Ave., Ottawa.	1 "	20	" .....	Queen City Oil Co., Ottawa.	Genuine.

DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.

Feb. 5..	Turpentine .	49501	J. B. McLeod, Kingston.....	1 pt.	25	.....	N. C. Polson, Kingston..	Genuine.
" 5..	"	49502	A. P. Chown, Kingston.....	1 "	35	.....	Dalton & Son. Kingston.	"



5	"	49503 W. H. Malley, Kingston.	1	30	N. C. Polson, Kingston.	"
6	"	49504 Geo. W. Malwood, Kingston.	1	25	A. Chown & Co., Kingston, Ont.	Contains petroleum.
7	"	49505 A. La. Green, Belleville.	1	25	Southern U.S. Turpentine Co., Cleveland	"
7	"	49506 F. C. Clark, Belleville, Ont.	1	30	Canada Paint Co., Montreal.	Genuine.
7	"	49507 D. M. Waters, Belleville.	1	25	Queen City Oil Co., Toronto.	"
7	"	49508 T. Geo. Watson, Port Hope.	1	30	Net Drug Co., Toronto.	"
8	"	49509 McBurnand & Jurey, Peterboro.	1	25	Canada Oil Co., Toronto.	"
8	"	49510 E. La. Pearce, Peterboro.	1	35	Unknown.	"

DISTRICT OF TORONTO—H. J. DAWLER, INSPECTOR.

19	6 Turpentine.	49337 T. H. Ralph, Dufferin.	1 pt.	20	Net Drug & Chem. Co., Hamilton.	Doubtful.
6	"	49338 W. M. Stewart Drug Co., Ltd., 100 Queen St. West, Hamilton.	1	25	A. H. Hume, Grimsby.	Retained spec. of Genuine Turpentine.
8	"	49339 G. A. Woodhouse, 153 King St. West, Hamilton.	1	30	Whelan & R. Lee, Hamilton.	Doubtful.
13	"	49340 Fred. March, Main St. East, Toronto.	1	25	British Am. Oil Co., Toronto.	Contains petroleum.
13	"	49341 J. M. Taylor, Port Credit.	1	20	Net Drug & Chem. Co., Ltd., Toronto.	"
16	"	49342 J. F. Wilkes, Aurora.	1	20	Queen City Oil Co., Ltd., Toronto.	Genuine.
16	"	49343 W. J. Patterson, Newmarket.	1	25	Net Drug Trading Co., Ltd., Toronto.	"
19	"	49344 E. A. White, Scarborough.	1	25	Unknown.	"
19	"	49345 L. F. Boyd, Thornbury.	1	25	Whelan Ltd., Collingwood.	Wood turpentine.
Mar. 1	"	49346 W. H. Lee, 261 Avenue Road, Toronto.	1	25	Drug Trading Co., Ltd., Spec. Turpentine.	Genuine.



BULLETIN No. 253—TABLE I, PART I.—TURPENTINE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion.)	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.		
DISTRICT OF LONDON—JNO. TALBOT, ACTING INSPECTOR.									
1912.									
Feb. 19	Turpentine..	47883	W. S. Cole, Exeter. ....	12 oz.	20	.....	Nat. Drug Co., London..	.....	Genuine.
" 19	"	47885	W. H. Howey, Exeter... ..	12 "	30	.....	Drug Trading Co., Toronto.	.....	"
" 20	"	47893	W. S. R. Holmes, Clinton.....	12 "	25	.....	Harlem Bros, Clinton ..	.....	"
" 20	"	47896	J. E. Hovey, Clinton.....	12 "	18	.....	Nat. Drug Co., Hamilton.	.....	"
" 20	"	48203	W. A. McConnell, Clinton....	12 "	30	.....	R. Rowen, Clinton.....	.....	"
" 21	"	48210	Chas. Aberhart, Seaforth.....	12 "	30	.....	G. A. Sells.....	.....	"
" 22	"	48218	E. A. Robertson, Stratford...	12 "	20	.....	G. N. Ward & Son, Stratford.	.....	"
" 22	"	48223	H. M. Myers, Stratford.....	12 "	25	.....	Myers Hardware Co., Stratford.	.....	"
" 24	"	48228	Frank H. Smith & Co., St. Mary's.	12 "	40	.....	Canada Paint Co. ....	.....	"
DISTRICT OF WINDSOR—JNO. TALBOT, INSPECTOR.									
Feb. 9	Turpentine..	47863	W. T. Strong, London ... ..	12 oz.	25	.....	Queen City Oil Co. ....	.....	Genuine.
" 9	"	47865	Anderson & Nelles .....	12 "	30	.....	Nat. Drug Co .....	.....	"
" 12	"	47872	Clement Drug Co., Sarnia....	12 "	30	.....	McKenzie Milne Co., Sarnia.	.....	"
" 12	"	47873	R. T. Geary, Sarnia.....	12 "	25	.....	N. D. Rugore, Sarnia....	.....	"
" 13	"	47879	W. T. Rapley, Strathroy.....	12 "	20	.....	Nat. Drug Co. ....	.....	"



## SESSIONAL PAPER No. 14

4007	W. R. Lenz, London.	12	1	Queen City Oil Co.
4008	T. Allen, London, Eng.	12	2	Queen's Paper Mills, Ltd.
4009	Faber Paper Co., London.	12	1	M. L. H. H. Co., London.
4010	John R. Pugh, London.	12	2	Queen's Paper Co., London.

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BULLETIN No. 253—TABLE I, PART I.—TURPENTINE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.		Cost.	Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Remarks and Opinion of the Chief Analyst.
			Quantity.	Conts.		Manufacturer.	Furnisher.		
DISTRICT OF CALGARY—R. W. FLETCHER, INSPECTOR—Concluded.									
1912.									
Mar. 18	Turpentine.	44107	The McDiarmid Drug Co., Cal-gary.	25	1 pint.	G. F. Stephens, Calgary.			Genuine.
" 18	"	44108	McFarlane & White, Calgary.	25	1 "	Canadian Oil Co., Calgary.			Contains petroleum.
" 18	"	44109	McCutcheon & McGill, Calgary.	25	1 "	C. C. Snowden, Calgary.			"
" 18	"	44110	"	25	1 "	"			"
DISTRICT OF NELSON—THOS. PARKER, INSPECTOR.									
Feb. 13	Turpentine.	48487	Mallory Drug Co., Kamloops, B.C.	30	12 oz.	Nat. Drug Co., Montreal.			Genuine.
" 13	"	49603	J. H. Clements, Kamloops, B.C.	35	12 "	N. S. Dalgleish, Kamloops.			"
" 13	"	49604	A. Galloway, Kamloops, B.C.	30	12 "	"			"
" 20	"	49628	W. M. Huston, Ashcroft, B.C.	30	12 "	M. Dumond, Ashcroft.			"
" 26	"	49632	Canada Drug & Book Co., Nelson, B.C.	25	12 "	Nelson Hardware Co., Nelson.			"
" 26	"	49633	Poole Drug Co., Nelson, B.C.	25	12 "	Teeporten & Co., Vancouver.			"
" 26	"	49634	W. Rutherford, Nelson, B.C.	35	12 "	Lymans Ltd., Montreal.			Not genuine.
Mar. 6	"	49636	A. Stewart, Ebbot, B.C.	30	12 "	Russell, Law & Canfield, Greenwood, B.C.			Genuine.
" 7	"	49637	J. Love, Phoenix, B.C.	50	12 "	Morrin, Thomson & Co., Phoenix B.C.			"
" 8	"	49638	Woodland & Co., Grand Forks, B.C.	30	12 "	Imperial Oil Co., Winnipeg.			"



SESSIONAL PAPER No. 14

DISTRICT OF VANCOUVER—J. F. POWER, INSPECTOR.

Feb. 14	Turpentine.	38285 G. H. Cowan Drug Co., Calla 1 pint	45	Ed. Ann. Paint Co., Vi toria	Contains petroleum.
"	14	38286 H. J. Barker, Chilliwack, B.C. 1 "	50	Contains	Genuine
"	14	38287 W. W. Campbell, Abbotsford, B.C. 1 "	60	Nat. Drug Co., Vancouver.	"
"	14	38288 A. Stephen, Mission, B.C. 1 "	45		"
"	14	38289 A. R. Willard, Westminster, B.C. 1 "	75		"
"	19	38290 H. Ryall, New Westminster, B.C. 1 "	40	Imported Oil Co., New Westminster	"
"	19	38291 D. S. Curtis & Co., New Westminster, B.C. 1 "	30		"
"	19	38292 T. A. Moor & Co., New Westminster, B.C. 1 "	45		"
"	19	38293 McKenzies, Port Moody, New Westminster, B.C. 1 "	30		"
"	20	38294 E. H. Hall, Etchem, B.C. 1 "	30	Imported Imperial Oil Co., Vancouver	"

DISTRICT OF VICTORIA—D. G. SULLIVAN, INSPECTOR.

Mar. 11	Turpentine.	49120 D. E. Campbell, Victoria, B.C. 1 pint	25	B. Ann. Paint Co., Ltd., Victoria, B.C.	Genuine.
"	11	49121 W. S. Terry, Victoria, B.C. 1 "	25	The Standard Co., Victoria, B.C.	"
"	11	49122 John Campbell, Victoria, B.C. 1 "	25	Mellish Co., Ltd., Victoria, B.C.	"
"	11	49123 Hall & Co., Victoria, B.C. 1 "	25	B. Ann. Paint Co., Ltd., Victoria, B.C.	"
"	11	49124 Wm. Jackson & Co., Victoria, B.C. 1 "	30	Mellish Co., Ltd., Victoria, B.C.	"
"	12	49125 Geo. A. Fraser, Victoria, B.C. 1 "	25	Nat. Drug & Chem. Co., Ltd., Victoria, B.C.	"
"	12	49126 F. J. Williams, Victoria, B.C. 1 "	25		"
"	12	49127 Ivell's Pharmacy, Victoria, B.C. 1 "	21	Standard Co., Victoria, B.C.	"
"	12	49128 B. Drug Store, Victoria, B.C. 1 "	25	Nat. Drug & Chem. Co., Ltd., Victoria, B.C.	"
"	12	49129 Nat. Drug & Chem. Co., Victoria, B.C. 1 "	25	Imported Oil Co., Vancouver, B.C.	"



BULLETIN No. 253—TABLE I,  
RESULTS OF

Name of Inspectoral District.	No. of Sample.	Sp. Gr. 15.5°C.	Residue 10 cc. 40 cc. acid.	Ref. Index 20°C. Residue.	Ref. Index 20°C. Turpentine.	Boiling Point of Fractions from 100 cc.			
						1st 25 cc	2nd 25 cc.	3rd 25 cc.	Next 15 cc.
			cc.			° °	° °	° °	° °
Nova Scotia.....	47001	8689	1 7	1 4794	1 4687	154 - 155	.... - 159	.... - 163	.... - 172
	47002	8564	4 3	1 4 23	1 4652	155 - 164	.... - 171	.... - 194	....
	47003	8950	7	1 5000	1 4750	....	....	....	....
	47004	8568	4 3	1 4650	1 4651	156 - 163	.... - 171	.... - 194	....
	47005	8598	4 2	1 4646	1 4662	156 - 164	.... - 170	.... - 189	....
	47006	8709	8	1 5042	1 4705	....	....	....	....
	47007	8569	4 4	1 4642	1 4652	155 - 164	.... - 172	.... - 194	....
	47008	8580	4 2	1 4644	1 4664	153 - 162	.... - 167	.... - 190	.... - 227
	47009	8745	8	1 5060	1 4716	....	....	....	....
	47010	8789	7	1 5035	1 4725	....	....	....	....
Prince Edward Island ....	46116	8702	9	1 50 3	1 4766	....	....	....	....
	46117	8762	8	1 50 7	1 4705	....	....	....	....
	46118	8514	4 5	1 45 4	1 4630	155 - 164	.... - 170	.... - 191	....
	46119	8770	4 1	1 4620	1 4651	153 - 162	.... - 169	.... - 192	....
	46120	8685	8	1 5051	1 4704	....	....	....	....
	46121	8799	8	1 5010	1 4720	....	....	....	....
	46122	8713	1 6	1 4781	1 4682	153 - 158	.... - 163	.... - 168	.... - 191
	46 23	8718	9	1 5024	1 4 00	....	....	....	....
	46124	8517	4 4	1 4570	1 4630	150 - 160	.... - 168	.... - 190	....
	46125	8722	9	1 5026	1 4709	....	....	....	....
New Brunswick ... ..	45581	8712	1 0	1 5023	1 4710	....	....	....	....
	45582	8750	8	1 5023	1 4 04	....	....	....	....
	45583	8 08	8	1 5032	1 4726	....	....	....	....
	45584	8861	8	1 5024	1 4731	....	....	....	....
	45585	8765	9	1 5038	1 4718	....	....	....	....
	45586	8739	3 1	1 4572	1 4657	153 - 160	.... 166	.... - 181	....
	45587	8593	4 2	1 4670	1 4660	156 - 164	.... - 170	.... - 192	....
	45588	8703	3 0	1 46 3	1 4680	152 - 162	.... - 169	.... - 189	....
	45589	8766	1 1	1 5014	1 4718	....	....	....	....
	45590	8716	9	1 5022	1 4704	....	....	....	....
Quebec ..... .	37338	8764	9	1 4974	1 4710	154 - 157	.... - 158	.... - 161	.... - 170
	37339	8766	1 1	1 4900	1 4705	....	....	....	....
	37340	8739	9	1 4983	1 4716	154 - 157	.... 158	.... - 159	.... - 167
	37341	8669	8	1 5010	1 4683	....	....	....	....
	37342	8765	9	1 4960	1 4725	....	....	....	....
	37343	8831	9	1 50 6	1 4728	....	....	....	....
	38344	8781	9	1 4994	1 4722	....	....	....	....
	37345	8612	2 1	1 46 1	1 4650	153 - 157	.... - 159	.... - 163	.... - 173
	37346	8730	1 3	1 4848	1 470	154 - 158	.... - 160	.... - 165	.... - 195
	37347	8987	8	1 4978	1 4756	....	....	....	....
St. Hyacinthe ..... .	39001	8773	1 0	1 5009	1 4 05	....	....	....	....
	39002	8733	4 3	1 461 1	1 4640	153 - 162	.... - 169	.... - 185	.... - 224
	39003	8 08	4 5	1 4589	1 4644	149 - 160	.... - 166	.... - 177	.... - 202
	39004	8682	3 9	1 4580	1 4651	150 - 161	.... - 169	.... - 190	....
	39005	8477	5 0	1 4500	1 4610	155 - 164	.... - 170	.... - 193	....
	39006	8729	1 0	1 4980	1 4708	154 - 157	.... - 159	.... - 161	.... - 188
	39007	8508	4 5	1 4597	1 461	149 - 159	.... - 164	.... - 176	.... - 205
	39 08	8644	4 2	1 4608	1 4660	150 - 160	.... - 170	.... - 200	....
	390 9	8513	4 6	1 4601	1 4620	152 - 162	.... - 169	.... - 187	....
	39 10	8740	9	1 5027	1 4712	....	....	....	....
Montreal ..... .	32686	8719	1 0	1 5014	1 4704	....	....	....	....
	32687	8740	9	1 5030	1 4701	....	....	....	....
	32688	8763	1 0	1 5000	1 4716	....	....	....	....
	32689	8688	1 5	1 4 87	1 4696	154 - 158	.... - 158	.... - 163	.... - 173
	3 690	8504	4 1	1 458 1	1 4617	148 - 160	.... - 167	.... - 177	.... - 205
	326 1	8824	6	1 5049	1 4742	....	....	....	....
	32692	8780	1 3	1 4954	1 4714	152 - 157	.... - 158	.... - 162	.... - 178
	2693	8584	4 2	1 4642	1 46 3	155 - 164	.... - 169	.... - 194	....
	32694	8533	4 2	1 4616	1 4631	153 - 1 2	.... - 169	.... - 187	....
	32695	8601	4 1	1 4616	1 4650	155 - 163	.... - 170	.... - 194	....



## SESSIONAL PAPER No. 14

## PART II—TURPENTINE

## ANALYSIS.

Refractive Index 20°C. of Fractions and Residues.					Volumes obtained from 100 cc.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
I.	II.	III.	IV.	Residual 10 cc.	Residual 25 cc.	Under 100°	100° 104°	100° 105°	100° 106°	100° 107°	100° 108°	100° 109°	100° 110°	100° 111°		
1.4600	1.4655	1.4668	1.4674	1.4802		3.5	20	8	2						47001	Genuine.
1.4608	1.4634	1.4644	.....		1.4720		22	16	13	6	4	3	17		47002	Contains petroleum.
															47003	Genuine.
1.4610	1.4642	1.4645			1.4712		24	14	11	8	4	3	17		47004	Contains petroleum.
1.462	1.4611	1.4660			1.4725		11	20	11	7	5	4	10		47005	Genuine.
															47006	Genuine.
1.461	1.4638	1.4645	.....		1.4708		8	18	12	8	4	3	18		47007	Contains petroleum.
1.461	1.4620	1.4661	1.4660	1.4784			15	25	18	6	5	4	2	10	47008	Genuine.
															4710	
															47116	
															46117	
1.457	1.461	1.4630			1.4694		1	19	17	13	6	4	2	10	46118	Contains petroleum.
1.4560	1.4630	1.4638			1.4746		14	17	8	7	4	2	10		46119	Genuine.
															4711	
1.460	1.4673	1.4680	1.4721	1.4801			15	27	17	8	2	1	1		47122	Not genuine.
															47123	Genuine.
1.461	1.4613	1.4646	.....		1.4768		11	18	13	8	6	3	2	10	47124	Contains petroleum.
															47125	Genuine.
															47581	
															47582	
															47583	
															47584	
1.467	1.4617	1.4638			1.4673		11	16	8	4	4	3	2	11	47585	Contains petroleum.
1.467	1.4645	1.4654			1.4720		7	18	12	6	4	3	11		47587	
1.460	1.4644	1.4670			1.4874		4	20	7	6	3	1	1		47588	
															47589	Genuine.
															47590	
1.467	1.4690	1.4700	1.4720	1.490			3	2	4						47591	
															47592	
1.467	1.4682	1.4695	1.4716	1.4944			3	3	2						47593	
															37342	
															37343	
															47594	
1.462	1.4648	1.4625	1.4670	1.4900			4	4	7	4					47595	Contains petroleum.
1.467	1.4677	1.4687	1.4727	1.5124			4	2	2	7	4	2	1		47596	Doubtful.
															37347	Genuine.
															47597	
1.458	1.4620	1.4639	1.4651	1.4790			11	3	15	9	7	3	2	1	47598	Contains petroleum.
1.460	1.4604	1.4625	1.4638	1.4793			6	10	11	17	7	4			47599	
1.460	1.4620	1.4604			1.4834		6	10	17	15	9	6	2		47600	
1.460	1.4582	1.4605			1.4710		1	18	18	10	6	3	4		47601	
1.457	1.4689	1.4700	1.4716	1.4944			10	3							47606	Genuine.
1.460	1.4603	1.4628	1.4635	1.4742		2	7	8	5	14	8	7	3	2	47607	Contains petroleum.
1.460	1.4622	1.4661			1.4837		4	11	11	10	5	5	3	1	47608	
1.456	1.4612	1.4627			1.4705		5	11	21	12	2	6	3	1	47609	
															47610	Genuine.
															47611	
															47612	
															47613	
1.4668	1.4680	1.4684	1.4708	1.4978			58	19	8	3					47614	Doubtful.
1.456	1.4610	1.4620	1.4634	1.4765		2	7	16	12	14	10	7	4	2	47615	Contains petroleum.
1.489	1.4698	1.4704	1.5061	1.5060			5	37	20	6	1	1			47616	Genuine.
1.4623	1.4617	1.4651			1.4718		8	22	20	19	6	4	3	1	47617	Contains petroleum.
1.4584	1.4630	1.4632			1.4717		14	19	15	1	7	4	5	1	47618	
1.4597	1.4628	1.4645	.....		1.4760		6	27	15	11	6	5	3	17	47619	



BULLETIN No. 253—TABLE I

RESULTS OF

Name of Inspectoral District.	No. of Sample.	Sp. Gr. 15.5°C.	Residue 10 cc. 40 cc. acid.	Ref. Index 20°C. Residue.	Ref. Index 20°C. Turpentine.	Boiling Point of Fractions from 100 cc.			
						1st 25 cc.	2nd 25 cc.	3rd 25 cc.	Next 15 cc.
			cc.			°	°	°	°
Ottawa.	50101	8742	1.1	1.4998	1.4716				
	50102	8829	1.0	1.4998	1.4728				
	50103	8543	2.5	1.4620	1.4637	145-154	-157	-159	-164
	50104	8796	1.1	1.5002	1.4720				
	50105	8671	1.0	1.5040	1.4710				
	50106	8683	1.0	1.4944	1.4698				
	50107	8688	1.2	1.4978	1.4691				
	50108	8730	1.2	1.4923	1.4706	151-159	-163	-177	
	50109	8512	4.4	1.4590	1.4617	150-160	-164	-173	-197
	50110	8742	1.2	1.4898	1.4718	150-158	-162	164	-190
Kingston	49501	8707	.8	1.5040	1.4700				
	49502	8672	.8	1.5066	1.4700				
	49503	8671	.8	1.5080	1.4704				
	49504	8522	4.0	1.4600	1.4621	153-159	-163	170	-193
	49505	8580	3.0	1.4667	1.4651	154-158	-161	-167	-179
	49506	8697	.8	1.5058	1.4701				
	49507	8714	1.2	1.4936	1.4720	155-157	-158	-161	-170
	49508	8724	1.1	1.5020	1.4707	156-158	-158	-159	-162
	49509	8709		1.5051	1.4709				
	49510	8716	.8	1.5055	1.4707				
Toronto.	49337	8690	1.3	1.4952	1.4698	156-158	-158	159	-164
	49338	8759	.9	1.5034	1.4726				
	49339	8689	1.3	1.4982	1.4696				
	49340	8585	2.5	1.4661	1.4630	152-158	-159	-165	-180
	49341	8547	2.8	1.4594	1.4640	152-159	-162	-171	-210
	49342	8761	.8	1.4910	1.4670				
	49343	8724	1.1	1.5033	1.4709				
	49344	8665	1.0	1.5030	1.4690				
	49345	8650	1.7	1.4850	1.4688	142-156	-160	164	-176
	49346	8683	1.1	1.5015	1.4703				
London.	47883	8753	.9	1.4960	1.4709	152-158	160	-164	-196
	47885	8754	.9	1.5030	1.4716				
	47893	8714	.8	1.5007	1.4701				
	47895	8747	.7	1.5030	1.4708				
	48203	8778	1.1	1.4956	1.4718				
	48210	8678	1.0	1.5030	1.4705				
	48218	8747	1.2	1.4930	1.4706	155-158	-159	-162	-174
	48223	8702	1.0	1.5049	1.4700				
	48228	8753	1.2	1.4961	1.4710	154-158	-159	-162	-171
	47863	8742	1.0	1.5002	1.4708				
Windsor	47865	8717	.8	1.5033	1.4703				
	47872	8711	.9	1.4979	1.4707				
	47873	8737	.9	1.5020	1.4710				
	47879	8712	.8	1.5030	1.4707				
	48076	8700	.9	1.4922	1.4702				
	48090	8695	.9	1.5020	1.4705				
	48097	8710	.9	1.5018	1.4706				
	48099	8685	.9	1.5040	1.4700				
	48621	8605	2.1	1.4728	1.4678	154-157	-159	-164	-183
	48622	8716	1.0	1.5024	1.4700				
Manitoba	48623	8620	2.2	1.4727	1.4668	155-158	-160	-163	-185
	48624	8606	2.5	1.4660	1.4666	154-159	-161	-166	-199
	48625	8679	.9	1.5049	1.4700				
	48626	8703	2.1	1.4693	1.4681	150-157	-160	-167	-202
	48627	8740	1.1	1.4873	1.4692	155-159	-160	-162	-179
	48628	8793	2.1	1.4760	1.4711	153-161	-166	-187	
	48629	8639	2.0	1.4696	1.4671	155-158	-160	-165	-195
	48630	8665	1.7	1.4758	1.4679	154-158	-160	-163	-175



## SESSIONAL PAPER No. 14

## PART II—TURPENTINE.

## ANALYSIS.

Refractive Index 20°C. of Fractions and Residues.						Volumes obtained from 100 cc.										No. of Sample	Remarks and Opinion of the Chem. Analyst.
I.	II.	III.	IV.	Residual 10 cc.	Residual 25 cc.	Under 150°C.	150-154	155-159	160-164	165-169	170-174	175-179	180-184	185-189	190 and over		
1.4544	1.4617	1.4558	1.4686	1.4818		24	18	13								50101	Genuine.
																50102	
																50103	Not genuine.
																50104	Genuine.
																50105	
																50106	
																50107	
1.4667	1.4684	1.4710			1.4986	8	12	11	4	3	2	2	3			50108	
1.4556	1.4619	1.4629	1.4636	1.4725		6	17	16	9	2	3	2	3			50109	Contains petroleum.
1.4641	1.4675	1.4665	1.4738	1.5120		8	37	54	7	2	2	1	1			50110	Genuine.
																50111	
																50112	
																50113	
1.4582	1.4616	1.4629	1.4637	1.4728		12	31	17	5	1	1	2	1			50114	Contains petroleum.
1.4618	1.4642	1.4639	1.4657	1.4734		3	31	12	6	2						50115	
																50116	Genuine.
1.4684	1.4699	1.4697	1.4711	1.4887		6	19	4								50117	
1.4594	1.4700	1.4707	1.4723	1.4875		82	8									50118	
																50119	
																50120	
1.4678	1.4684	1.4690	1.4701	1.4821		82	8									50121	Doubtful.
																50122	Genuine.
																50123	Doubtful.
1.4650	1.4640	1.4660	1.4681	1.4968		6	32	40	5	1	2					50124	Contains petroleum.
1.4627	1.4653	1.4665	1.4712	1.4786		12	26	11	6	3	2	2	1			50125	
																50126	
																50127	
1.4643	1.4675	1.4691	1.4704	1.4830		8	12	29	5	10	4	1				50128	Wood turpentine.
																50129	Genuine.
1.4675	1.4682	1.4691	1.4729	1.5084		5	12	30	5	4	2	1	1			47883	
																47884	
																47885	
																47886	
																47887	
1.4675	1.4682	1.4690	1.4704	1.4954		70	15	5	2							48218	
																48219	
1.4664	1.4682	1.4690	1.4708	1.4977		7	16	23								48223	
																48224	
																48225	
																48226	
																48227	
																48228	
																48229	
																48230	
																48231	
																48232	
1.4658	1.4664	1.4673	1.4685	1.4730		3	12	21	8	3	2	1				48233	Contains petroleum.
																48234	Genuine.
1.4647	1.4660	1.4670	1.4675	1.4740		48	31	5	5	2	1					48235	Contains petroleum.
1.4629	1.4653	1.4664	1.4699	1.4762		3	29	45	6	4	2	1	1	2		48236	
																48237	Genuine.
1.4616	1.4665	1.4680	1.4700	1.4891		5	41	24	8	5	1	1	1	4		48238	Contains petroleum.
1.4663	1.4679	1.4685	1.4702	1.4936		48	32	6	2	2						48239	Genuine.
1.4676	1.4687	1.4704			1.4896	3	17	24	16	7	5	2	2	14		48240	Contains petroleum.
1.4649	1.4664	1.4687	1.4688	1.4820		46	29	6	3	2	2	1	1			48241	"
1.4654	1.4670	1.4680	1.4688	1.4815		3	47	30	7	3						48630	Not genuine.



4 GEORGE V., A. 1914  
BULLETIN No. 253—TABLE I,  
RESULTS OF

Name of Inspectoral District.	No. of Sample.	Sp. Gr. 15.5°C.	Residue 10 cc. 40 cc. acid.	Ref. Index 20 C. Residue.	Ref. Index 20°C. Turpentine.	Boiling Point of Fractions from 100 cc.			
						1st 25 cc.	2nd 25 cc.	3rd 25 cc.	Next 15 cc.
			cc.			° °	° °	° °	° °
Calgary . . . . .	44101	8604	2 2	1 4672	1 4664	155-158	....-160	....-164	....-188
	44102	8714	1 1	1 4916	1 4703	.....	.....	.....	.....
	44103	8708	9	1 5042	1 4709	.....	.....	.....	.....
	44104	8598	2 5	1 4684	1 4664	154-158	....-160	....-166	....-188
	44105	8648	1 8	1 4718	1 4678	154-158	-159	....-162	....-179
	44106	8690	8	1 4984	1 4700	154-158	....-158	....-159	....-164
	44107	8698	1 0	1 4895	1 4696	.....	.....	.....	.....
	44108	8599	2 0	1 4685	1 4668	153-158	....-160	....-164	....-187
	44109	8678	2 0	1 4688	1 4674	154-159	....-160	....-166	....-194
	44110	8622	2 0	1 4705	1 4670	154-158	....-160	....-164	....-190
Nelson . . . . .	48487	9218	7	1 5077	1 4757	.....	.....	.....	.....
	49600	8660	1 1	1 4957	1 4700	.....	.....	.....	.....
	49604	8737	1 0	1 4964	1 4710	.....	.....	.....	.....
	49628	8698	9	1 5008	1 4700	.....	.....	.....	.....
	49632	8714	8	1 5068	1 4700	.....	.....	.....	.....
	49633	8714	9	1 5060	1 4701	.....	.....	.....	.....
	49634	8667	1 6	1 4767	1 4678	155-158	....-158	....-163	....-174
	49636	8692	1 1	1 4994	1 4695	.....	.....	.....	.....
	49637	8703	1 1	1 5016	1 4708	.....	.....	.....	.....
	49638	8746	1 1	1 5010	1 4708	.....	.....	.....	.....
Vancouver . . . . .	38255	8707	4 4	1 4588	1 4618	152-160	....-167	....-185	....-235
	38286	8750	1 0	1 4976	1 4712	.....	.....	.....	.....
	38287	8742	9	1 5021	1 4707	.....	.....	.....	.....
	38288	8722	9	1 5026	1 4700	.....	.....	.....	.....
	38289	8692	9	1 5064	1 4701	.....	.....	.....	.....
	38290	8724	1 1	1 5009	1 4704	.....	.....	.....	.....
	38291	8722	1 0	1 5013	1 4718	.....	.....	.....	.....
	38292	8809	7	1 5003	1 4712	.....	.....	.....	.....
	38293	8720	1 0	1 5011	1 4703	.....	.....	.....	.....
	38294	8712	1 0	1 5000	1 4700	.....	.....	.....	.....
Victoria . . . . .	49120	8692	1 1	1 4974	1 4701	.....	.....	.....	.....
	49121	8692	1 1	1 4986	1 4618	.....	.....	.....	.....
	49122	8697	9	1 4978	1 4700	.....	.....	.....	.....
	49123	8714	9	1 4980	1 4703	.....	.....	.....	.....
	49124	8692	1 1	1 4988	1 4708	.....	.....	.....	.....
	49125	8717	8	1 5018	1 4712	.....	.....	.....	.....
	49126	8855	7	1 5036	1 4738	.....	.....	.....	.....
	49127	8730	1 0	1 4991	1 4703	.....	.....	.....	.....
	49128	8825	7	1 5044	1 4726	.....	.....	.....	.....
	49129	8892	7	1 5036	1 4726	.....	.....	.....	.....







APPENDIX R.

BULLETIN No. 254—BRAN, SHORTS AND CHOP FEED.

OTTAWA, May 20, 1913.

WM. HIMSWORTH, Esq.,  
Acting Deputy Minister Inland Revenue.

SIR,—I have the honour to hand you a report upon 396 samples of feeds sold as bran, shorts or middings and chops.

These samples were purchased throughout Canada in September and October last; and may be taken fairly to represent the character of cattle feed offered under the above names.

As explained in Bulletin No. 231 (February, 1912), which contains a report of our last inspection of Unregistered Feeds, an Order in Council of May 3, 1911, requires these feeds to possess minimum values as below:—

	Proteids.	Fat.	Fibre.
	(minimum)	(minimum)	(maximum)
Bran .....	14	3	10
Shorts or Middlings .....	15	4	8
Chop.....	10	2	10

Although feeds of these classes are not required to be registered before being offered for sale, it is not forbidden that any manufacturer who believes his product to be notably better than the minimum legal requirements should register this and sell with a guarantee of quality. In such case the manufacturer must give some distinguishing name to the article, and not sell it simply as "Bran". He may name it "Smith's Bran", or "Jones' Bran", or he may devise a specific name for it. For purposes of the Act, the article then becomes a "Stock Feed" as defined by Sect. 2 (b) of the Act; and is amenable to the conditions of Sect. 2 (e) and Sect. 15. Thirty-eight samples of bran, shorts and chops among the 396 now reported are sold with a guarantee of value. It is, of course, proper that the manufacturer should be required to live up to any guaranteed value which he claims; and it may thus happen that a bran (for example) which would have passed as legal bran, if sold without any special claim of quality may be found deficient and technically adulterated because it fails to show the content of proteid matter or fat which the manufacturer claimed, and upon which, rather than upon the legal requirements for bran, it is judged.



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The following table gives a concise statement of the results of analysis of bran, shorts and chop feeds.

	Sold with a guarantee.		Sold without a guarantee.		Total.		
	Meets guarantee.	Below guarantee.	Genuine.	Below requirements.	Genuine.	Adult.	Sum.
Bran ..	8	4	121	2	129	6	135
Shorts or Middlings	1	3	127	8	128	11	139
Chop.....	16	6	91	9	107	15	122
Totals.....	25	13	339	19	364	32	396

In some cases the deficiency is very small and may be regarded as accidental. Sometimes the deficiency in one component is fully compensated by overplus in another, so that the purchaser of the feed is not defrauded except technically. As a rule the deficiency is most notable in cases where a guarantee of value is given, the manufacturer evidently basing his guarantee upon a higher analytical result than he has found it practicable to live up to. The following tables show in detail the deficiencies referred to. It is to be noted that our standards, as interpreted by section 15 of the Feeding Stuffs Act, 1909, provide for a deficiency of one per cent in proteids or fat or for an excess of two per cent fibre, if the total value of the feed is not impaired thereby.

## FEEDS SOLD WITH A GUARANTEE AND FAILING TO MEET THIS.

## BRAN.

Number.	Guarantee.			Below guarantee.		
	Proteids.	Fat.	Fibre.	Proteids.	Fat.	Fibre.
50481 ..	16.82	5.50	10.86	1.86	0.82	
50488 ..	16.82	5.50	10.86	1.73	0.88	
51616..	16.82	5.50	10.86	2.48	1.30	
51471 ..	16.82	5.50	10.86	1.90	1.38	

NOTE I.—The Western Canada Flour Mills Company, Goderich, writes as follows under date, April 2, 1913: We at one time did put out our bran under registration number and analysis, but later found that such was not necessary under the Act, and we therefore discontinued the practice.

All of the above samples meet legal requirements for bran; but they were sold under Registration No. 66, with the guarantee as given above.

## SHORTS.

No.	Reg. No.	Guarantee.			Below Guarantee.		
		Proteids.	Fat.	Fibre.	Proteids.	Fat.	Fibre.
*39158 ..	68	16.73	4.39	5.20	4.79	0.31	7.12
51483 ..	63	18.38	6.02	7.99	1.94	1.56	
51617..	63	18.38	6.02	7.99	1.76	1.36	

\* Inspector Rouleau is uncertain regarding register number, probably 68 is intended. This judgment must be regarded as doubtful.



No. 51483 meets the standard for shorts, but fails to meet the guarantee. The same is true of No. 51617. No. 39158 falls much below the standard for shorts.

CHOP.

No.	Reg. No.	Guarantee.			Below guarantee.		
		Proteids.	Fat.	Fibre.	Proteids.	Fat.	Fibre.
50508 .....	112	10·48	3·25	13·25	2·02	0·15	
50509 .....	73	12·00	3·40	8·00	1·80		
39176 .....	131	10·00	2·50	18·00	5·77	1·48	7·00
50954 .....	50	11·00	2·50	16·00	2·78	0·88	
49260 .....	138	18·00	5·00	10·00	2·56	0·60	1·1
19271 .....		45·00	8·00		2·00		

FEEDS SOLD WITHOUT A GUARANTEE.

BRAN.

No.	Requirements.			Below Requirements.		
	Proteids.	Fat.	Fibre.	Proteid.	Fat.	Fibre.
50489 .....	14	3	10	1·36		
48168 .....	14	3	10	1·53		

SHORTS.

46896 .....	15	4	8	1·22	0·18	....
46325 .....	15	4	8	....	1·48	0·8
37253 .....	15	4	8	2·88	2·40	3·1
37257 .....	15	4	8	2·44	0·81	0·1
49676 .....	15	4	8	1·22	1·96	....
38459 .....	15	4	8	1·66	....	....
38464 .....	15	4	8	1·19	....	....
49275 .....	15	4	8	1·39	....	....

CHOP.

46872 .....	10	2	10	1·11	....	....
37275 .....	10	2	10	1·54	0·56	1·2
37280 .....	10	2	10	2·45	0·38	5·1
39170 .....	10	2	10	0·38	....	5·0
50952 .....	10	2	10		....	2·6
49599 .....	10	2	10	1·70	....	....
48132 .....	10	2	10	1·54	....	....
49679 .....	10	2	10	0·59	....	3·7
49681 .....	10	2	10	0·45	....	8·2

SUMMARY OF THE FOREGOING, AS JUDGED UNDER THE TERMS OF THE ACT.  
GUARANTEED FEEDS.

No.	
50481 } 50488 } 51616 } 51471 }	Are adulterated if held to meet the guarantee. Are genuine if sold as legal bran.
39158	Adulterated.
5514 } 5516 }	Meet the standard for legal Shorts, but are adulterated if judged by manufacturer's claim.
50508	Adulterated.
50509	Low proteids compensated by excess of fat.
39176 } 50954 }	Adulterated



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- No.  
 49260 Meets legal requirements for chop, but is adulterated under terms of guarantee.  
 49271 Is a special feed. The deficiency of 2 p.c. protein would be large for an ordinary chop, being 20 p.c. of the total protein required by law. The percentage of deficiency of protein in this feed is only about  $4\frac{1}{2}$ . It contains an excess of 0.44 fat above guarantee. It is doubtful if such a result would justify condemnation as adulterated.

## FEEDS SOLD WITHOUT GUARANTEE

- 50489 Low proteids compensated by excess fat.  
 48168  
 46896 Adulterated.  
 46325 Low fat compensated by excess proteids.  
 37253 Adulterated.  
 37257  
 49676 Low fibre cannot be held to compensate for deficiency in both proteids and fat. Adulterated.  
 38459 Adulterated.  
 38464  
 49275 Adulterated.  
 46872 Excess of fat compensates for low proteids.  
 37275 Adulterated.  
 37280  
 39170 " by excess of fibre.  
 48132  
 49679 " by excess of fibre.  
 49681 Compensating value in excess of fat.

## SUMMARY OF SAMPLES IN WHOSE CASES COMPENSATING VALUES DO NOT APPEAR; CONSEQUENTLY ARE ADULTERATED.

- 50481  
 50488 " " "  
 51615  
 51171  
 39158 Adulterated.  
 4483  
 51617  
 39176  
 49260 If required to meet the guarantee  
 46896 Adulterated.  
 37253  
 37257  
 49676  
 38459  
 38464  
 49275 Adulterated.  
 37275  
 37280  
 39170  
 48132  
 49679

So far as nutriment value is concerned, it therefore appears that only 23 samples out of 396, or less than 6 per cent of the collection, can be regarded as adulterated under the Act. Of this number, one sample is doubtfully amenable to the charge of adulteration; and 7 others, while failing to meet the manufacturer's claims, are found to meet the legal minimum values for the class of feed to which they belong. This leaves only fifteen (15) samples in whose regard no extenuating circumstances can be pleaded.

Even among these it will be found that the deficiencies are for the most part slight, and the report shows that bran, shorts and chop feeds are so far as their feeding value goes generally of good quality. Modern milling processes are so complex, and the natural desire of the manufacturer to work economically and to secure a maximum value from his grain is so great that with the fullest intention to bring his low priced products up to the legally required minima, it is inevitable that he should at times utter a sample below standard, unless he takes the precaution of checking his output by analysis.



FEED FLOUR.

In Bulletin No. 231 (page 5) I called attention to a variety of feeding stuff sold as shorts or middlings, but having characters which would seem to indicate that it is rather a low-grade flour than shorts or middlings, as these are generally known. The following quotation from Bulletin No. 231 explains this matter:—

“A considerable number of samples, which appear to answer a description of low grade flour, were found in the above collection; but these were supplied indiscriminently as shorts or middlings, as indicated by the maxima for fibre and for fat, though most of them were sold as middlings.

“In order to discover whether the present collection indicates any accepted distinction between the terms, I have collated the results for 72 out of 73 samples sold as shorts, and for 54 out of 68 samples sold as middlings, being in each case the number of samples respectively, which meet the requirements of legal definition.

“Seventy-two (72) samples of shorts give results as follows:—

	SHORTS.	Fat.	Proteids.	Fibre
Means.. . . .		4.65	16.20	6.3
Maxima.. . . .		6.48	18.46	8.0
Minima.. . . .		3.44	14.00	3.9

“Fifty-four (54) samples of middlings give the following results:—

	Fat.	Proteids.	Fibre.
Means.. . . .	4.47	15.95	5.2
Maxima.. . . .	6.26	18.02	8.1
Minima.. . . .	3.02	14.13	1.4

“The results appear to justify the conclusion that the article sold as shorts is not substantially different from the article sold as middlings; and this conclusion is corroborated by the expressed opinion of many millers, in answer to questions by our inspectors. At the same time it is to be noted that samples characterized by very low fibre, low fat and a high starch content (indicating flour), are usually sold as middlings, rather than as shorts.

“Examples of this are found in the following:—

Number.	Fat.	Proteids.	Fibre.	
46084 . . . . .	2.16	10.37	1.5	low in proteids and fibre.
36956 . . . . .	1.55	12.73	0.7	“ “ fat and fibre.
43271 . . . . .	2.08	12.51	0.8	“ “ “
43281 . . . . .	2.32	13.26	1.3	“ “ “
47413 . . . . .	2.66	15.11	1.9	“ fat and fibre.
47414 . . . . .	3.16	12.56	1.8	“ proteids and fibre.
38185 . . . . .	2.66	11.42	0.9	“ “ fat and fibre.
38189 . . . . .	2.02	12.03	0.5	“ “ “
47611 . . . . .	2.37	14.61	1.1	“ fat and fibre.
47618 . . . . .	1.98	13.04	0.8	“ “ “
47621 . . . . .	2.28	12.86	1.0	“ “ “

“Feeds of this kind should be sold as feed-flour; or by some name which distinguished them from legal shorts or middlings. While they possess considerable value for feeding purposes, they must be regarded as adulterated under the Act when offered as shorts or middlings. Their low fibre content is an advantage from the point of view of nutritive value, since this is replaced by starch in amount equivalent to the difference between the legal maximum for fibre (8 per cent) and the actual fibre present.”



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"I am convinced that in none of the above listed samples is there any evidence of intended fraud. The irregularity is apparently due to ignorance of legal requirements for shorts (middlings), and a mistaken idea that a low grade flour is even better value, than middlings as usually understood. I feel justified in recommending that for this first inspection under the Feeding Stuffs Act, leniency be exercised towards the vendors, and their attention called, to the requirements of the Act."

It is matter for consideration whether G. 968 should not be amended by addition of this description of feed under the name "FEED FLOUR"; in such case it would be necessary to amend the Act in Section 2 (b), by exclusion of the term "FEED FLOUR" as a commercial feeding stuff requiring registration.

The standard for bran, shorts and chop feeds, as defined in G. 932, were amended on June 7, 1911, by the following clause: 'And must be free from vital seeds of any of the noxious weeds defined by the Governor in Council under the Seed Control Act.' (See G. 968).

Examination of all the samples herein reported as to their content in vital weed seeds has been made by the courtesy of the Department of Agriculture, through the office of the Seed Commissioner.

Samples were submitted to the Seed Commissioner on the twentieth of March, but this being the busiest season for that department of work, it was found impossible to report them until the 15th instant; which accounts for the considerable delay in issuing this Bulletin.

On that date, I received a very valuable and exhaustive report from the Seed Commissioner accompanied by the subjoined letter of explanation:—

DEPARTMENT OF AGRICULTURE,

OFFICE OF THE SEED COMMISSIONER,

OTTAWA, May 15, 1913.

MR. A. MCGILL,

Chief Analyst,

Inland Revenue Department, Ottawa.

Dear Sir,— Herewith I am sending you six folios containing summary results of the analysis of the samples of brans, shorts, middlings and chop feeds submitted with your letter of March 20.

For your convenience, we have arranged these in consecutive order according to your laboratory test numbers. If and when you have occasion to refer to the analysis of any sample, I shall be obliged if you will kindly quote our laboratory test number.

We have not made germination test of any of the weed seeds enumerated to determine whether they are vital. We have, however, enumerated only those weed seeds which were found to be fully matured and in perfect condition; these we have assumed to be vital.

Nature has provided most kinds of noxious weed seeds with a hard or mucilagenous seed coat by which the germ may be protected, even though the seed may be exposed to the best possible conditions for germination; such weed seeds do not lend themselves readily to artificial methods for determining their percentage vitality.

From research work that has been done in our seed laboratory and elsewhere, however, we have good reason to believe that there are exceedingly few fully matured and uninjured seeds of plants that can properly be characterized as noxious weeds that are not capable of germinating. The fact that they cannot be forced to germinate until nature has prepared them for such is the principal factor that brings them within the category of noxious weeds and makes them so troublesome to farmers.

Yours very truly,

GEO. H. CLARK,

Seed Commissioner.



4 GEORGE V., A. 1914

The result of this examination is presented in the following summary:—

	Samples.
Containing more than 400 vital weed seeds per lb.....	6
" " " 300 " " " .....	3
" " " 200 " " " .....	4
" " " 100 " " " .....	11
" " " 50 " " " .....	14
" " " 25 " " " .....	27
" less " 25 " " " .....	71
Free from vital weed seeds .....	260
Total .....	396

The Seed Control Act (1-2 George 5, Chap. 23) of 1911, as interpreted under Order in Council under section 2, is as follows:—

The maximum proportion of noxious weeds that may be tolerated in any other seeds without affecting their character as being free from the seeds of the said weeds within the meaning of section 6 of this Act, shall be as follows:—

(a) For seed of oats, barley, wheat or other seeds similar in size, one weed seed in one pound avoirdupois.

(b) For seed of flax, millet or other seeds similar in size, one weed seed in one ounce avoirdupois.

(c) For seed of white clover and grasses, five weed seeds in one ounce avoirdupois.

It is to be kept in mind that these regulations apply to seeds intended to be applied directly to the land. In the case of cattle feeds, the vital weed seeds are presumably applied to the soil only after they have passed through the alimentary tract of the animals to which they are fed, and it is reasonable to suppose that their vitality will be greatly affected in the processes of digestion.

The only experimental data available to me directed to the determination of the vitality of seeds which have been fed to animals is contained in a report published as Bulletin No. 128 of the Maryland Agricultural Experiment Station, College Park, Md., in June, 1908.

This valuable study of the question is briefly presented in the following summary:—

#### SUMMARY.

The above results were obtained through experiments concerning the vitality of weed seeds under the influence of their distribution by manure along two different lines; namely, the effect of fermenting manure on the vitality of weed seeds (seeds introduced through bedding) and the effect upon the vitality of weed seeds after passing through the digestive channel of domestic animals (seeds fed to animals).

The first part of the experiment was accomplished so as to cover the condition where manure remains for six months in a barnyard, pound or pile. The second covered conditions where the manure remained on piles for a short while, as when shipped by carload lots from cities.

From the above results the following conclusions seem justified:—

1st. When manure is allowed to ferment in piles for 6 months no danger of distributing weed seeds is incurred.

2nd. When manure is allowed to remain in piles and undergoing partial fermentation, little danger of distribution is incurred.

The second part of the experiment which dealt with the effect upon the vitality of weed seeds after passing through the digestive channels of domestic animals was accomplished so as to bring about three existing conditions.

1st. Manure hauled direct from the stable to the field as a top dressing and left there exposed to the washing of the rains.

2nd. Where the manure is hauled directly from the stable to the field where it is immediately ploughed under.



3rd. Where the domestic animals are allowed to run in pasture and the droppings are allowed to remain wherever they chance to fall.

From the above tables in the latter part, the following results were obtained:—

2nd. Where the manure was hauled directly from the stable upon the land and ploughed under, 2.3 per cent of the seeds fed to animals came up.

3rd. Where the droppings remained on the pasture fields unadulterated as they fell, an average of only 2.1 per cent of the seeds fed to animals germinated.

I have the following expression of opinion from Geo. H. Clark, Esq., Seed Commissioner of the Department of Agriculture, Canada.—

"There has been quite a large number of samples of mill feeds analysed in our seed laboratory covering the period of six years, and from the results of this work we have formed the opinion that the proportion of whole weed seeds contained in the feeding stuff depends largely on the care or lack of care on the part of the manufacturer.

Weed seeds in seed grain are probably five times more dangerous to agriculture than are weed seeds in mill feeds, for the reason that only a small per cent of the weed seeds fed to stock ultimately are put on the land in a viable condition.

For the present, I think I cannot do more than to express the opinion that if you were to tolerate five noxious weed seeds per pound of bran, shorts or chop feed before you consider their character affected as being free from the seeds of the said weeds within the meaning of your regulations, then field agriculture would be as well safeguarded as it now is under the regulations that are applied for a similar purpose under the Seed Control Act.

This last suggestion would place the limit at 5 vital seeds of noxious weeds per pound; and it is proper, in its regard, to further analyse the case of 71 samples of this collection, which contained less than 40 seeds per pound:—

20 or more weed seeds per pound.	8
15 " " "	11
10 " " "	14
5 " " "	15
Less than 5 " "	20
Total	71

It may be found necessary to place the limit for vital weed seeds in bran, shorts and chop feeds as low as suggested by the Seed Commissioner. There can be no doubt, however, that when the number exceeds 25 seeds per pound, a reasonable limit is passed, and such samples must be regarded as adulterated, on this ground and altogether apart from considerations of nutritive value.

Many of these contain notable amounts of protein and fat, and if properly ground so as to destroy their vitality they might not be objectionable as a feed except in such species as contain acrid or poisonous principles.

Complaints have frequently reached this office to the effect that animals refused to eat certain feeds, or that ill effects have been noted after feeding.



4 GEORGE V., A. 1914

The subjoined table gives details of 65 samples of feeds which contain more than 25 vital seeds per pound.

No. of Sample.	Seeds per lb.	Class.	Manufacturer.	Address.	Feeding Value.
46873	112	Chop.	Canada Cereal Co.	Toronto	O.K.
46874	80	"	Gunn & Co	Halifax	"
46875	43	"	"	"	"
46877	128	"	Ogilvie Mill. Co	Montreal	"
46880	432	"	Halifax "	Halifax	"
46882	25	Bran	Ogilvie "	Montreal	"
46894	32	Shorts	Unknown	"	"
46307	32	Bran	Ogilvie Mill. Co	Montreal	"
46314	96	"	"	"	"
46330	176	Chop.	Can. Cereal Co	Toronto	"
46331	32	"	Ogilvie Mill. Co	Montreal	"
50493	512	Shorts	Dom. Flour Mills	"	"
50499	336	Middlings	Milling Co.	Woolverton	"
50503	32	Chop.	Maynes & Riley	St. John, N.B.	"
50504	43	"	Ogilvie Mill. Co	Montreal	"
50506	80	"	"	"	"
50507	224	"	"	"	"
50508	32	"	Cereal Mill. Co.	Tillsonburg	Adulterated.
50509	320	"	Western F. M. Co	"	O.K.
37278	100	"	Ogilvie Mill. Co	Montreal	"
39151	32	Bran	Western F. M. Co	"	"
39154	26	"	Robin Hood Mills.	"	"
39163	32	Shorts	St. Lawrence Mill. Co.	Montreal	"
39171	144	Chop.	Cousens & Co.	St. Jean	"
50942	48	Shorts	West. Can. F. M. Co.	"	"
50293	48	Chop	Sylvester & Son	Vankleek Hill	"
50294	48	Bran	Campbell Co.	Peterboro'	"
50298	352	Shorts	Quakers Oats Co.	"	"
51618	64	Chop	West. Can. F. M. Co.	"	"
49590	52	"	Geo. Gibson	Kingston	"
49591	64	"	W. J. Peters	"	"
49593	43	"	W. M. F. Co.	"	"
49595	32	"	Anderson Bros.	Kingston	"
49506	112	"	"	"	"
49597	48	"	E. F. M. Brown	Washburn	"
51471	32	Bran	West. Can. F. M. Co.	"	Doubtful.
51476	176	"	Dom. F. M. Co.	Hamilton	O.K.
51479	640	"	Wood Mill. Co	"	"
51480	32	"	Seaforth Mill. Co.	Seaforth	"
51488	128	Shorts	Dom. F. M. Co.	Hamilton	"
51489	64	"	Ogilvie Mill. Co	Montreal	"
51490	64	"	Unknown	"	"
51491	96	Chop	Campbell F. M. Co.	Toronto	"
51495	208	"	W. J. Baldwin	Aurora	"
51497	288	"	Dom. F. M. Co	Hamilton	"
48127	96	Bran	King Mill. Co.	Sarnia	"
48132	48	Chop	A. J. Sutherland	London	Adulterated.
48134	96	Bran	Docter & Son	"	O.K.
48165	32	Chop	R. M. Pincombe	Strathroy	"
48751	32	Bran	Lake of Woods Co	Portage la Prairie	"
49772	544	Chop	West. Can. F. M. Co.	Brandon	"
48776	1,104	"	Ogilvie's	Winnipeg	"
48778	48	"	W. Can. F. M. Co.	St. Boniface	"
49680	64	"	Brackman Ker Co	Strathcona	"
49682	48	Bran	Ellison Mill. Co	Lethbridge	"
38451	128	"	Vanc. Mill. Co	Vancouver	"
38454	32	"	Robin Hood Co.	Moosejaw	"
38469	48	Chop	F. T. Vernon	Vancouver	"
38470	112	"	Brackman Ker Co	New Westminster	"
38471	64	"	McLellan & McCaster	Vancouver	"
38473	80	"	Brown & Hovey	"	"
38475	432	"	A. E. Burnett & Co.	"	"
49265	32	Shorts	Lake of Woods Co	Portage la Prairie	"
49272	112	Bran	Robin Hood Co.	Calgary	"
49280	256	"	Ogilvie Mills	Winnipeg	"



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From the above table it is seen that 62, perhaps 63, out of the 65 samples recorded as containing more than 25 vital weed seeds per pound are of satisfactory value as regards the nutritive values of the feeds. This does not prevent them from being judged as adulterated, provided that the limit number of 25 vital weed seeds per pound be held justifiable. From a study of all the work bearing upon this subject to which I have access, I am convinced that the limit suggested is quite liberal.

Thirty-seven samples are sold as chop, 18 samples as bran and 10 samples as shorts or middlings. It is to be expected that if unground weed seeds are to be found in cattle feeds they should appear in chop or in bran. They should not apparently be found in shorts or middlings because this product is supposed to represent only the result of such fine grinding as should ensure the destruction of the seeds by comminution. It would seem that whole weed seeds could only appear in shorts or middling by purposeful addition of waste or 'screenings.'

It is evident from this study that purchasers of stock feeds have little ground for complaint as regards the feeding value of these goods.

On the other hand, they contain very notable amounts of vital weed seeds, and, in the light of present knowledge are in my opinion adulterated when such contamination exceeds 25 seeds per pound.

The practice of adding 'screenings' or 'offal' to bran, shorts and chop is very objectionable, and unless the 'screenings' have been ground so fine as to destroy the vitality of the weed seeds contained must be held to be a violation not only of the Adulteration Act, but, in spirit at least, a violation of the Seed Control Act.

I beg to recommend publication of this report as Bulletin No. 254.

I have the honour to be, Sir,

Your Obedient Servant,

A. MCGILL,

*Chief Analyst*



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA—

1912.								
Sept. 11	Chop Feed.	46871	Wentzells Ltd., 3 lbs. Halifax, N.S.	Nil.		Quaker Oats Co., Mfrs. Peterboro, Ont.		Registration No. 113.
" 23	"	46872	Quaker Oats Co., 3 Agency, Halifax, N.S.	"	"	"	"	"
" 24	"	46873	S. P. Goudy, Yar- mouth, N.S.	3	"	Canada Cereal Co., Toronto.	E. Allen, Yar- mouth, N.S.	"
Oct. 2	"	46874	Gunn & Co., Hali- fax, N.S.	3	"	Vendors..		Pig Feed..
" 2	"	46875	" " " 3	"	"	"	"	"O & B" Chop
" 3	"	46876	C. B. McMullen, 3 Truro, N.S.	"	"	"	"	"Special" Br'd
" 3	"	46877	R. McG. Archi- bald, Truro, N.S.	3	"	Ogilvie M. Co., Mfrs. Montrea		"Hercules Brand.
" 3	"	46878	Colchester Co. F. 3 Co-op. Asso., Truro, N.S.	"	"	Quaker Oats Co., Peterboro.	"	"Banner" Feed Marked reg- istered but number not given on bag.
" 5	"	46879	H. C. Barnaby & 3 Sons, Bridge- water, N.S.	"	"	"	"	"Schumacher" No. 13.
" 8	"	46880	F. A. Shaw, Hali- fax, N.S.	3	"	Halifax M. M Co., Halifax, N.S.	"	Crushed oats
Sept. 11	Bran..	46881	Wentzells Ltd., 3 Halifax, N.S.	"	"	Lake of the Woods M. Co., Toronto.	"	"
" 19	"	46882	J. D. Stewart, 3 Halifax, N.S.	"	6	Ogilvie M. Co., Montreal.	"	"
" 20	"	46883	I. B. Shaffner & 3 Co., Halifax, N.S.	Nil.	"	Western F. M., Toronto.	"	No. 66..
" 20	"	46884	Estate of H. W. 3 Brown, Halifax, N.S.	"	"	Canada F. Mills, Chatham, Ont.	I. B. Shaffner Co., Halifax, N.S.	"
" 24	"	46885	S. P. Goudy, Yar- mouth, N.S.	3	"	Maple Leaf Mills, Toronto	Cochrane & Burns, Bos- ton, Mass.	"
" 25	"	46886	Shand Bros, Wind- sor, N.S.	3	"	Quaker Oats Co., Mfrs. Peterboro.	"	"
" 26	"	46887	F. W. Fraser, 3 Halifax, N.S.	"	"	Peterboro Cereal Co., Peterboro	"	"
" 26	"	46888	F. A. Shaw, Hali- fax, N.S.	3	"	Maple Leaf Mills Co., Toronto.	I. B. Shaffner Co., Halifax, N.S.	"
" 27	"	46889	Gunn & Co., Hali- fax, N.S.	3	"	Shark & Snider, Mfrs Bridgeport, Ont.	"	"
" 27	"	46890	G. A. Redmund 3 Co., Dartmouth, N.S.	"	"	Maple Leaf Mills Co., Toronto.	"	"



SESSIONAL PAPER No. 14

## BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.				Vital Weed Seeds.		Remarks and Opinion of the Chief Analyst.
Proteids	Fat	Fibre.	Proteids	Fat	Fibre.	Moist.	Chiefly.	Percentage	
R. J. WAUGH INSPECTOR									
10.33	3.29	10.5	11.48	3.66	3.4				46871 Meets guarantee.
			8.89	3.06	7.3				46872 Proct. 100% as to standard by inspection of 100.
			10.60	4.06	4.6		112 Wild Oats. 100% 100% Canada Turnip Wild Mustard.		46873 Genuine as to food value.
			9.83	3.42	3.2		80 Wild Oats. Ball Mustard.		46874
			10.16	4.28	6.2		43 Wild Oats. Wild Mustard.		46875
			9.56	4.64	7.8		11 Wild Oats . . . . .		46876
			10.36	4.26	4.3		128 Wild Oats. Ball Mustard. Wild Mustard.		46877
8.50	3.50	9.00	8.82	3.38	6.3				46878 Meets guarantee.
10.50	4.00	16.50	9.94	2.30	9.2				46879
			11.97	3.84	11.7		432 Wild Mustard. Canada Turnip. 100% 100% Stink Weed.		46880 Genuine as to food value by inspection of 100.
			13.06	4.62	9.3				46881 Genuine.
			14.13	4.62	9.9		25 Wild Oats . . . . .		46882 as to food value.
16.82	5.00	10.86	13.62	5.02	8.1		5 Wild Oats.		46883 Meets guarantee.
			14.61	4.32	8.6				46884
			15.35	4.68	7.0				46885
			16.63	4.88	6.1				46886
			14.78	4.48	9.4				46887
			14.48	4.38	8.1				46888
			15.22	4.42	8.9		10 Wild Oats. Rag Weed		46889
			14.44	4.46	8.4				46890



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA—

1912.								
Sept. 11	Shorts.	46891	Wentzells Ltd., 3 lbs.. Halifax, N.S.	Nil.		W. F. Taylor Co., Chatham, Ont.		
" 19	"	46892	J. D. Stewart, 3 Halifax, N.S.	" 6		Ogilvie M. Co., Montreal.	Nelson & Hart, Halifax, N.S.	
" 20	"	46893	I. B. Shaffner & Co., Halifax, N.S.	3 " Nil.		" " Mfrs.		
" 20	"	46894	Estate of H. W. Brown, Halifax, N.S.	3 " "		Unknown	J. B. Shaffner Co., Halifax, N.S.	
" 24	"	46895	S. P. Goudy, Yarmouth, N.S.	3 " "		Ogilvie M. Co., Montreal.	Mfrs.	
" 25	"	46896	Shand Bros., Windsor, N.S.	3 " "		Quaker Oats Co., Peterboro.	"	
" 26	"	46897	F. W. Fraser, Halifax, N.S.	3 " "		Campbell F Mills, Toronto	"	
" 26	"	46898	F. A. Shaw, Halifax, N.S.	3 " "		Unknown	J. B. Shaffner Co., Halifax, N.S.	
" 27	"	46899	Gunn & Co., Halifax, N.S.	3 " "		T. H. Taylor Co. Chatham, Ont.	Mfrs.	
" 27	"	46900	G. A. Redmond & Co., Ltd., Dartmouth, N.S.	3 " "		Dom. F. Mills, Co., Brantford, Ont.	"	

DISTRICT OF PRINCE EDWARD ISLAND—

Sept. 6	Bran.	46307	A. Horne & Co., Ch. Town, P.E.I.	3 lbs..	6	Ogilvie's Montreal.		
" 13	"	46308	Auld Bros., Ch. Town, P.E.I.	3 " "	6	Dom. F. Mills, Montreal.		
" 17	"	46309	Geo. Forbes, Vernon River Bridge P.E.I.	3 " "	6	Canada F. Mills, Chatham, Ont.		
" 23	"	46310	F. L. McNutt, Ch. Town, P.E.I.	3 " "	6	"	G. H. Toombs, Ch. Town, P.E.I.	
" 23	"	46311	The P.E.I. Hay & Produce Co., Ltd. Ch. Town, P.E.I.	3 " "	6	The Woodburn M. Co. Glencoe, Ont.		
" 23	"	46312	R. E. Mutch & Co., Ch. Town P.E.I.	3 " "	6	E. A. Barry, Montreal.		
" 27	"	46313	Carvell Bros, Ch. Town, P.E.I.	3 " "	6	Ogilvie's, Montreal.		
Oct. 1	"	46314	Brace McKay & Co. Summerside, P.E.I.			"		
" 3	"	46315	J. J. Hughes, Souris, P.E.I.	3 " "	6	Taylor's, Chatham, Ont.		
" 3	"	46316	A. Currie, Souris, P.E.I.	3 " "	8	Campbell M. Co., Toronto Jct., Ont.		



## SESSIONAL PAPER No. 14

## BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.	
<i>Continued.</i>								
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
			15.13	4.74	7.3			46891 Genuine
			15.57	4.62	6.4	96	Common Wild Oats	46892
			15.92	4.56	5.9			46893
			15.80	4.78	5.8	32	Wild Mustard. Hard For Milling.	46894 Genuine as to food value.
			16.23	4.00	5.0			46895
			13.78	3.82	6.2			46896 Large quantity of Wild mustard.
			15.89	5.12	7.7			46897 Genuine
			16.25	4.72	5.8		Wild Mustard	46898
			15.18	4.38	4.7			46899
			15.88	4.34	4.5			46900

## WM. A. WEEKS, INSPECTOR.

			14.35	4.34	9.9	32	False Flax. Stinky weed.	46307 Genuine as to food value.
			13.96	4.56	9.4			46308 Genuine
			14.17	3.62	9.1			46309
			15.09	3.52	9.9			46310
			14.96	4.78	8.9			46311
			14.57	5.12	9.8			46312
			15.05	4.78	9.0			46313
			14.13	4.24	9.3	96	Wild Oats. Wild mus- tard.	46314 Genuine as to food value.
			13.30	4.24	9.1			46315 Genuine
			14.92	4.42	8.7			46316



Date of Collection.	Nature of Sample.	Nature of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF PRINCE EDWARD ISLAND—

1912.								
Sept. 13	Shorts.	46317	A. Horne & Co., Ch. Town, P.E.I.	3 lbs.	6	Taylor, Chatham Ont.		
" 13	"	46318	Auld Bros., Ch. Town, P.E.I.	3 "	6	Dom. F. Mills, Montreal.		
" 17	"	46319	Geo. Forbes, Ver- non River Bridge P. E. I.	3 "	6	Canada F. Mills, Chatham, Ont.		
" 23	"	46320	F. L. McNutt, Ch. Town, P.E.I.	3 "	6		G. H. Toombs, Ch. Town, P.E.I.	
" 23	"	46321	The P. E. I. Hay & Produce Co., Ch. Town, P.E.I.	3 "	6		Auld Bros., Ch Town, P.E.I.	
" 27	"	46322	Carvell Bros., Ch. Town, P.E.I.	3 "	6	Shirk & Snider, Bridgeport, Conn.		
Oct. 1	"	46323	Sinclair & Stewart, Summerside, P.E.I.	3 "	6	The J.W. Camp- bell Co., St. Thomas, Ont		
" 1	"	46324	"	3 "	6	Ogilvie M. Co., Montreal.		
" 3	"	46325	J. J. Hughes, Sour- ris, P.E.I.	"	6	Taylor's, Chat- ham, Ont.		
" 3	"	46326	Mathew & McLean, Souris, P.E.I.	3 "	6	Empire M. Co., St. Thomas, Ont.		
Sept. 17	Chop Feed	46327	George Forbes, Vernon River Bridge, P.E.I.	3 "	8	Canada F. Mills, Chatham, Ont.		
" 23	"	46328	F. L. McNutt, Ch. Town, P.E.I.	3 "	9		J. A. Farqu- harson & Co. Ch. Town, P.E.I.	
" 23	"	46329	The P. E. I. Hay & Produce Co., Ch. Town, P.E.I.	3 "	6	P.E.I. Farmer.	Unknown	
" 25	"	46330	Auld Bros., Ch. Town, P.E.I.	3 "	6	Canada Cereal Co., Toronto.		
Oct. 1	"	46331	Sinclair & Stewart, Summerside, P.E.I.	3 "	6	Ogilvie M. Co., Montreal.		
" 3	"	46332	Mathew & McLean, Souris, P.E.I.	3 "	8	Johnson & Mc- Donald, New Glasgow, N.S.		
" 3	"	46333	Sterns Bros., Sour- is, P.E.I.	3 "	8	Atlantic M. Co., Pictou, N.S.		



SESSIONAL PAPER No. 14

## BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		Remarks and Opinion of Chief Analyst.
Proteids.	Fat	Fiber	Proteids.	Fat Direct.	Fiber	Wheat	Chiefly.	
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
10.57	4.70	1.5						46320
15.22	4.22	1.4						46321
16.19	4.00	7.2						46322
15.80	4.92	4.4						46323
16.08	4.22	4.1						46324
16.44	4.40	2.4						46325
16.27	4.66	3.8						46326
16.06	4.76	3.4						46327
16.63	2.52	8.8				16 Campions.		46328 Low in fat—Compensated
17.44	4.20	1.0						46329 Genuine.
9.20	3.21	1.6						46330
8.95	2.80	1.4						46331
12.04	4.48	8.9						46332
10.50	3.28	2.6				176 Wild oats, very hard. Hare's Ear		46333 as to food value.
11.09	6.54	4.0				32 Green Rye, Wild Oats.		46334
9.71	3.60	1.7				1 Wild oats.....		46335
9.04	4.04	1.7						46336



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NEW BRUNSWICK—								
1912.								
Sept. 14	Bran . . .	50480	C. H. Peters Sons Ltd., St. John, N.B.	3 lbs.	10	Quaker Oats Co., Peterboro, Ont.		"Bell Cow" Brand.
" 16	" .	50481	James Collins, St. John, N.B.	3 "	10	Western F. M. Co., Ltd., Canada.		Protein 18.82% Fat 5.5%— Fibre 10.88
" 17	" . . .	50482	P. Nase & Son, St. John, N.B.	3 "	10	Maple Leaf M. Co., Ltd., Toronto, Ont.		"Maple Leaf" Brand.
" 17	" . . .	50483	L. C. Prime & Co., Ltd., St. John, N.B.	3 "	10	The Jas. Goldie Co. Ltd., Guelph Ont.		
" 25	" . . .	50484	St. Martin's Trading Co., Ltd., St. Martin's, N.B.	3 "	10	Sask. M. Co., Ltd., Moose-jaw, Sask.		"Robin Hood" Crude Protein 16.25% Fat 5.2% Crude Fibre 9.8
" 25	" .	50485	J. & J. S. Titus, St. Martin's, N.B.	3 "	10	Dom. F. M., Ltd., Montreal.		Labelled Pure Bran Feed.
Oct. 4	" . . . .	50486	Strong & Nodden, Woodstock, N.B.	3 "	10	Maple Leaf M. Co., Ltd., Toronto, Ont.		"Maple Leaf" Brand.
" 5	" . . . .	50487	B. Beveridge, Andover, N.B.	3 "	10	Canada C. & M. Co., Tillson-bury, Ont.		
" 17	" . . . .	50488	D. & J. Ritchie, Newcastle, N.B.	3 "	10			Registration No. 66. Protein 16.82% Fat 5.5% Fibre 10.88%
" 18	" . . . .	50489	J. B. Snowball Co., Ltd., Chatham, N.B.	3 "	10	The Tavistock M. Co., Ltd., Tavistock, Ont.		
Sept. 14	Shorts . .	50490	C. H. Peters Sons Ltd., St. John, N.B.	3 "	10	Maple Leaf M. Co., Toronto, Ont.		"Maple Leaf" Brand.
" 16	" . . . .	50491	Jas. Collins, St. John, N.B.	3 "	10	Quaker Oats Co., Peterboro, Ont.		"Bell Cow" Brand.
" 17	" . . . .	50492	P. Nase & Son, St. John, N.B.	3 "	10		W. F. Barnhill, Fairville, N.B.	National Brand
" 17	" . . . .	50493	L. C. Prime & Co., Ltd., St. John, N.B.	3 "	10	Dom. F. Mills, Ltd., Montreal		
Oct. 3	" .	50494	M. E. Doohan, Fredericton, N.B.	3 "	10	The Campbell M. Co., West Toronto, Ont.		"Bull Rush" Brand.
" 3	" . . .	50495	G. T. Whelpley, Estate, Fredericton, N.B.	3 "	10	Lake of the Woods M. Co., Montreal.		
" 4	" .	50496	Strong & Modden, Woodstock, N.B.	3 "	10	Maple Leaf M. Co., Ltd., Toronto, Ont.		"Maple Leaf" Brand.



SESSIONAL PAPER No. 14

## BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis			Vital Weed Seeds.		Remarks and Opinion of the Chief Analyst.
Proteins	Fat.	Fibre	Proteins	Fat Direct.	Fibre	per cent	Chiefly.	
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
			14.65	4.40	8.5			50480 German.
16.82	5.50	10.80	14.96	4.68	8.2			50481 Below guarantee in proteins. See Note 1—p.
			13.27	4.52	6.4			50482 German.
			14.39	4.34	8.5			50483
16.25	5.20	9.80	17.28	4.44	8.4		5 Hare's Ear Mustard.	50484 Meets guarantee.
			13.96	4.60	7.7			50485 German.
			15.18	4.20	7.4			50486
			14.13	4.68	8.7			50487
16.82	5.50	10.80	15.09	4.62	8.8		17 Stickseed. Wild oats. Stinkweed.	50488 Below guarantee in proteins but successful identification of the brand. Meets requirements for legal bran. See note 1.
			12.64	4.34	10.0			50489 Low in proteins, but excess of 1.34 p.c. fat compensates.
			16.06	4.22	5.9			50490 German.
			16.44	4.16	6.5			50491
			15.92	5.00	4.4		11 Wild Mustard. Hare's Ear Mustard.	50492
			14.70	4.02	3.2		512 Tumbling Mustard..	50493 as to food value high in weed seeds
			16.49	4.50	5.7		24 Stink Weed. Wild Mustard. Hare's Ear Mustard.	50494
			16.76	4.46	4.6			50495 German.
			15.92	4.20	5.1			50496



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NEW BRUNSWICK—

1912.

Oct.	5 Shorts.....	50497	B. Beveridge, Ant-dover, N.B.	3 lbs	10	Canada C. & M. Co., Tillsonburg, Ont.		
"	17 Middlings.	50498	D. & J. Ritchie, Newcastle, N.B.	3 "	10	Dom. F. Mills, Ltd.		
"	18 "	50499	J. B. Snowball Co., Ltd., Chatham, N.B.	3 "	10	The Wolverton M. Co., Ltd., Wolverton, O.		
Sept.	14 Chop Feed.	50500	C. H. Peters Sons, Ltd., St. John, N.B.	3 "	10	Maynes & Riley Mills City Road, St. John, N.B.		Cracked Corn & Oats.
"	16 "	50501	James Collins, St. John, N.B.	3 "	10	Quaker Oats Co., Peterboro, Ont.		"Banner" Brand.
"	17 "	50502	P. Nase & Son, St. John, N.B.	3 "	10	Steen Bros., St. John, N.B.		
"	19 "	50503	Maynes & Riley, Ltd., St. John, N.B.	3 "	10	Vendors		
Oct.	3 "	50504	John Gibson & Son, Fredericton, N.B.	3 "	10	Ogilvie F. M. Co., Montreal.		Puritan Brand
"	4 "	50505	J. M. Fripp, Medunakeg F. Mills, Woodstock, N.B.	3 "	10	Vendor.....		Product of Native Buckwheat, whole contents of grain, except outer hull.
"	7 "	50506	J. W. McPhail, Perth, N.B.	3 "	10	Ogilvie M. Co., Ltd., Montreal		"Puritan" Brand.
"	15 "	50507	Sussex Mercantile Co., Ltd., Sussex, N.B.	3 "	10			"Hercules" Brand.
"	16 "	50508	Toombs & Son, Moncton, N.B.	3 "	10	Canada C. & M. Co., Ltd., Tillsonburg, Ont.		"Edinboro" Chop.
"	16 "	50509	Reed & Co., Ltd., Moncton, N.B.	3 "	10	Western F. M. Co., Ltd.		"Jockey" Feed, Reg. No. 73. Protein 12.0 Fat 3.4 p.c. Crude Fibre 8.0 p.c..

DISTRICT OF QUÉBEC—

Sept.	5 Bran	37252	N. Cantin, 133 Rue du Pont, Quebec	3 lbs.	10	Unknown	P. T. Busiere & Cie.	
"	5 Shorts ....	37253	" " " "	3 "	10	"	"	
"	16 "	37254	Hamel & Bedard, 728 Rue St. Valier, Quebec.	3 "	6	"	"	
"	16 Bran.	37255	" " " "	3 "	6	"	"	



SESSIONAL PAPER No. 14  
BRAN, SHORTS, CHOP FEED.

Guar.			Results of Analysis.			Vital Weed Seeds.		Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct	Fibre	No. per lb.	Chiefly.	

J. A. FERGUSON, INSPECTOR--Concluded.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
			16.80	4.90	5.7			50497 Genuine.
			17.50	4.82	5.1			50498
			14.78	4.24	4.9	326 False Flax,...		50499 as to food value very high in weed seeds.
			9.71	3.82	2.8	5 Wild Oats 1 Ball Mustard.		50500 Genuine.
8.50	3.50	9.60	8.76	2.48	7.3	38 Campions		50501 Meets guarantee
			9.49	3.52	3.9			50502
			9.80	3.74	3.8	12 Wild Oats		50503 " as to food value.
9.50	4.00	6.50	9.27	3.14	8.1	13 Wild Oats		50504 Meets guarantee as to food value.
			10.30	2.38	1.6			50505
9.50	4.00	6.50	4.34	4.74	7.0	80 Wild Oats		50506 Meets guarantee as to food value.
			9.89	4.04	4.0	224 Docks, False Flax, Wild Oats, Ball Mustard, Hair Ear Mustard.		50507 Genuine as to food value.
10.48	3.25	13.25	8.46	3.10	12.8	32 Wild Oats		50508 Low in proteids, as guaranteed adulterated.
12.00	3.40	8.00	10.20	4.82	6.7	320 Campions, False Flax, Wild Oats, Hair Ear Mustard		50509 False adulterated, as guaranteed. 1.42 p.c. very high in food value.

F. X. W. E. BELAND, INSPECTOR.

14.39	4.42	7.9				37252 Genuine.
12.42	1.60	11.1	2 Wild Oats			37253 Low in proteids, as guaranteed Adulterated.
14.44	4.50	7.2	9 Wild Mustard...			37254 Genuine.
16.40	3.76	3.2				37255



4 GEORGE V., A. 1914

BULLETIN No. 254 —

Date of Collection.	Nature of Sample.	Nature of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF QUEBEC—								
1912.								
Sept. 17	Bran . . .	37256	J. Rochette, 7 Rue D. Eligny, Quebec.	3 lbs	10	Unknown . . .	J. B. Reneaud & Cie.	.....
" 16	Shorts . . .	37257	" " . . .	3 "	12	" . . . . .	" . . . . .	.....
" 18	Bran . . .	37258	M. Boyce & Son, 1921 Cote D'Abraham, Quebec.	3 "	9	" . . . . .	P. J. Busiere, Quebec.	.....
" 19	" . . . . .	37259	Jos. Boiteau, 27 Rue Sutherland, Quebec.	3 "	10	" . . . . .	J. B. Reneaud	.....
" 20	" . . . . .	37260	G. Tanguay, Rue St. Paul, Quebec	3 "	Nil	St. Lawrence Mfrs., M. Flour Mills, Quebec.		.....
" 20	Shorts . . .	37261	" " . . .	3 "	"	Maple Leaf M. Co.	St. Lawrence Flour Mills, Mfrs.	.....
" 20	Bran . . .	37262	W. Carrier et fils, 108 Rue Dalhousie, Quebec.	3 "	"	Ogilvie's, Montreal.	Mfrs. . . . .	.....
" 20	Shorts . . .	37263	" " . . .	3 "	"	" " . . . . .	" . . . . .	.....
" 20	Bran . . .	37264	P. G. Busiere, Rue Dalhousie, Quebec.	3 "	"	" " . . . . .	" . . . . .	.....
" 20	Shorts . . . .	37265	" " . . .	3 "	"	Maple Leaf M. Co.	" . . . . .	.....
" 20	Chop Feed	37266	" " . . .	3 "	"	Vendor . . . . .		.....
" 20	Bran . . . .	37267	D. E. Drolet, Rue Dalhousie, Quebec.	3 "	"	Lac Des Bois. . . .	Mfrs. . . . .	.....
" 20	Shorts . . .	37268	" " . . .	3 "	"	Ogilvie's, Montreal.	" . . . . .	.....
" 23	Bran . . . .	37269	J. E. Hall, 84 Rue Richardson, Quebec.	3 "	"	St. Lawrence Co.	" . . . . .	.....
" 23	Shorts . . . .	37270	J. E. Drolet, 143 Rue du Pont, Quebec.	3 "	"	Maple Leaf M. Co.	Kirouack et fils.	.....
" 23	" . . . . .	37271	Vezina & Filion, Rue du Pont, St. Roch Nord, Quebec.	3 "	"	Dom. Flour Mills.	Mfrs. . . . .	.....
" 23	Chop Feed	37272	" " . . .	3 "	"	Vendors . . . . .		.....
" 23	Shorts . . .	37273	Begin & frere, 67 Rue St. Roch, Quebec.	3 "	"	Maple Leaf Flour M. Co.	Mfrs. . . . .	.....
Oct. 8	Moule Avoine.	37274	J. B. Reneaud & Cie, Quebec.	"	"	F. Goulet, Beauport.	" . . . . .	.....
" 8	Moule Kamoat.	37275	" . . . . .	3 "	"	Lake of the Woods M. Co., Montreal.	" . . . . .	.....
" 8	Moule Shorts.	37276	" . . . . .	3 "	"	Maple Leaf Co.	" . . . . .	.....



## SESSIONAL PAPER No. 14

## BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly		
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
<i>Continued.</i>									
			14.22	4.04	10.7	21	False Flax, Hare's Ear Mustard.	37256	Genuine.
			12.56	3.19	8.1			37257	Low in proteids. Adulterated.
			14.74	4.44	8.5	11	Campions - Stink Weed.	37258	Genuine.
			14.83	4.70	9.0	10	Wild Oats.	37259	
			14.74	5.14	9.0	...	Campions.	37260	
			15.75	4.28	5.6			37261	
			14.41	4.40	9.5			37262	
			16.84	4.24	5.4			37263	
			16.49	4.72	6.2	6	Hare's Ear Mustard.	37264	
			16.14	4.90	6.0	6	Campions.	37265	
			15.31	4.58	8.5	5	Great Ragweed.	37266	
			15.71	4.50	9.6			37267	
			16.80	5.46	3.1			37268	
			14.57	4.76	9.7			37269	
			15.88	4.04	5.4			37270	
			14.70	3.56	4.7			37271	
			10.29	4.88	9.2	.....		37272	
			16.19	4.02	4.7			37273	
			9.88	4.66	11.2			37274	
			8.46	1.44	11.2			37275	Low in proteids. Adulterated.
			16.97	5.28	6.2			37276	Genuine.



Date of Collection.		Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
					Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF QUEBEC—

1912.									
Oct.	8	Moulé Middlings.	37277	J. B. Renaud & Cie., Quebec.	3 lbs.	Nil.	Ontario Flour Manufacturers Mills.		
"	8	Eureka Feed.	37278	"	3 "	"	Ogilvie F. Mills, Montreal.	"	
"	8	Barley Feed.	37279	"	3 "	"	"	"	
"	9	Moulé Avoine.	37280	N. Bertrand, 685 Rue St. Valier, Quebec	3 "	"	Vendor		
"	9	Moule Mele.	37281	"	3 "	"	Unknown	Julien et Cie, Quebec.	

DISTRICT OF ST. HYACINTHE—

Sept.	16	Bran	39145	E. Dionne, St Bonaventure.	3lbs.	Nil.	Ogilvie M. Co., Montreal.		
"	17	"	39146	D. Parent, Yamas-ka West.	3 "	"	St. Lawrence M. Co., Montreal.		
"	18	"	39147	C. Roberge, Sorel.	3 "	"	Lake of the Woods M. Co., Montreal.		
"	19	"	39148	H. De la Barre, Lack St. Ours,	3 "	"	Vendor		
"	24	"	39149	Chas. R. Cousins & Co., St. Jean.	3 "	"	Dom. F. Mills, Ltd., Brantford.		
"	25	"	39150	Ed. Brosseau, Henryville.	3 "	"	St. Lawrence M. Co., Montreal.		
Oct.	1	"	39151	Fuller & Wright, Sherbrooke.	3 "	"	Western Canada Flour Mills Co.		
"	4	"	39152	G. B. Reed, North Hatley.	3 "	"	The Quaker Oats Co., Peterboro		
"	8	"	39153	J. Dupaul, Valcourt Ely.	3 "	"	St. Lawrence M. Co., Montreal.		
"	8	"	39154	E. Rogers, Eastman.	3 "	"	Robin Hood Mills, Ltd.		Protein 16.26 %; Fat 5.2%; Fibre 9.8%.
Sept.	16	Shorts	39156	N. Simard, St. Germain de Grant-ham.	3 "	"	Maple Leaf M. Co.	Lake of the Woods M. Co., Montreal.	
"	17	"	39157	G. D. Tremblay, Pierreville Mills.	3 "	"		Laperrière & fils, Pierre-ville.	
"	17	"	39158	L. Descheneau, Pierreville Mills.	3 "	"	West. Canada F. Mills Co.		Registered No. 66 as best as I could read.
"	17	Middlings.	39159	"	3 "	"	Maple Leaf M. Co., of Canada		
"	17	Shorts.	39160	D. Parent, Yamas-ka West.	3 "	"		E. Benoit & fils, Mon-treal.	



SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids	Fat.	Fibre.	Proteids	Fat Direct.	Fibre.	No. per lb.	Chiefly.		
Concluded.									
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
.....		.....	15.00	4.26	5.9	3	Wild oats	37277	Genuine.
9.50	4.50	13.0	8.72	3.68	15.3	100	Wild oats. Wild mustard.	37278	Meets guarantee as to food value.
			9.45	3.86	9.5	1	Wild oats	37279	Genuine.
			7.55	1.62	15.1	3	Wild oats.....	37280	Low in proteids, high fibre. Adulterated.
			10.89	3.36	7.7			37281	Genuine.

J. C. ROULEAU, INSPECTOR.

			14.88	4.60	8.3			39145	Genuine.
			13.09	4.50	9.1	19	Campions. False flax	39146	
			15.02	4.58	7.5			39147	
			17.94	4.58	9.1			39148	
			11.00	4.64	8.8			39149	
			14.48	4.84	9.2			39150	
			15.57	4.30	8.8	32	Wild oats	39151	Genuine as to food value.
			14.57	4.68	8.6			39152	Genuine.
			14.48	4.94	9.7			39153	
16.26	5.20	9.80	15.18	4.72	8.8	26	Stickseed. Wild oats.	39154	Meets guarantee as to food value.
			16.14	4.52	3.2			39156	Genuine.
			16.60	4.00	4.7			39157	
16.82	5.50	10.86	11.94	4.08	12.3			39158	Low in proteids, either as guaranteed or as legal shorts. Adulterated.
			15.40	4.08	4.7			39159	Genuine.
			15.71	3.50	1.3			39160	



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF ST. HYACINTHE—								
1912.								
Sept. 18	Special Middlings	39161	C. Roberg., Sorel	3 lbs.	Nil	Lake of the Woods M. Co., Montreal.		
" 18	Shorts.	39162	U. St. Jean, Con-trecœur.	3	"	Swan Lake Flour Mills Co.		
" 25	"	39163	Ed. Brosseau, Henryville.	3	"	St. Lawrence M. Co., Montreal.		
" 25	Middlings	39164	"	3	"	"		
Oct. 2	Shorts.	39165	Ed. Durand, Megantic.	3	"	Ont. & Manitoba F. M. Ltd., Ottawa.		
Sept. 16	Moulée....	39167	Jos. Laberte, St. Germain de Grantham.	3	"	W. J. Watkins, St. G. de Grantham.		Orge. Sarrazin Bléd'Inde & Pois.
" 16	Barley Feed	39168	E. Dionne, St. Bonaventure	3	"	Ogilvie M. Co., Montreal.		
" 17	Moulée 'Granite'	39169	A. Roberge, Yarmaska East.	3	"	"		
" 18	Moulée Mélangée	39170	J. P. Paul, Sorel.	3	"		J. B. Gagne, Sorel.	Orge. Avoine & Sarrazin.
" 24	Moulée Orge.	39171	Chas. R. Cousins & Co., St. Jean.	3	"	Vendors.		
" 26	'Kremo' Feed.	39172	N. Thompson, Frelishburg.	3	"	West. Canada F. M. Co.		Registered No. 74.
" 27	Moulée....	39173	J. H. Brault, St. Armand.	3	"	The Quaker Oats Co., Peterboro		Registered No. 13.
Oct. 3	Moulée de Ble En-dommage..	39174	D. S. Bachand, Coaticook.	3	"	Vendor.....		
" 4	Moulée Melangee	39175	G. B. Reed, North Hatley.	3	"	"		About 50% Bled'Inde & 50% Avoine.
" 9	Moulée 'Success'	39176	A. Leduc, Mansonville.	3	"	St. Lawrence F. M. Co., Montreal.		Bag stamped. Proteids 10.0% Fat 2.50%--Fibre 18.0%.
DISTRICT OF MONTREAL—								
Sept. 6	Bran..	50931	Sinclair Bros., St. Lawrence Mkt. Place, Montreal.	3 lbs.	Nil.	Lake of the Woods Milling Co., Ltd.		
" 6	"	50932	S. Leclerc, 1646 St. Lawrence Montreal.	3	"	"		
" 6	"	50933	Canada Grain & Feed Co., St. Dominique St., Montreal.	3	"	Unknown		



## SESSIONAL PAPER No. 14

## BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		
<i>Continued.</i>									
			p.c.	p.c.	p.c.				
			16.42	3.72	3.4			39161	Genuine.
			15.18	4.40	4.3			39162	
			16.44	5.20	6.5	328	St. L. weed, wild radish, mustard.	39163	as to food value.
			16.49	5.04	6.3	1	Wild mustard.....	39164	
			17.30	4.98	7			39165	
			14.22	4.86	5			39167	
			13.47	3.74	3.6			39168	
			14.88	4.88	4.5			39169	
			9.62	2.34	13.6			39170	High in fibre—adulterated.
			12.12	2.10	4.8	501	Wild Oats	Ball 39171	Genuine.
11.56	2.16	16.20	10.67	1.70	11.2			39172	Genuine.
10.50	4.00	10.50	10.50	3.26	9.6			39173	
			13.43	2.42	2.7			39174	Genuine.
			9.90	1.60	4.5			39175	
10.00	2.50	18.00	4.23	1.02	2.0			39176	Very low in proteids—high in fibre—adulterated.

J. J. COSTIGAN, INSPECTOR

14.74 4.62 9.8

39231 Genuine.

14.92 4.58 9.9

39232

15.31 4.78 5.6

39233



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF MONTREAL—

1912.								
Sept.	7 Bran	50934	Brennan Currie & Co., Place Youville, Montreal.	3 lbs	Nil.	Campbell M. Co. Peterboro, Ont		
"	16 " . . . .	50935	A. Guertin, 534 Notre Dame St W., Montreal.	3 " . . .	"	E. A. Barry . . .		
"	18 " . . . .	50936	E. Benoit et fils, 181 St. Paul St., Montreal.	3 " . . .	"	H. Cook Sons & Co., Hensal, Ont.		
"	16 " . . . .	50937	J. P. Lebel, 69 Commissioner St., Montreal.	3 " . . .	5	Lake of the Woods M. Co., Ltd.		Protein 14.5%. Fat 4.0%. Crude Fibre 10.0%.
"	19 " . . . .	50938	F. X. Benoit, 201 St. Paul St., Montreal.	3 " . . .	5	H. Cook Son & Co.		
"	6 Shorts . . . .	50941	Sinclair Bros., St. Lawrence Market Place, Montreal.	3 " . . .	Nil.	Lake of the Woods M. Co., Ltd.		
"	7 " . . . .	50942	Brennan Currie & Co., Place Youville, Montreal.	3 " . . .	5	Western Canada M. Co., Ltd.		
"	16 " . . . .	50943	A. Guertin, 534 Notre Dame St. W., Montreal.	3 " . . .	5	E. A. Barry . . .		
"	16 " . . . .	50944	E. Benoit et fils, 181 St. Paul St., Montreal.	3 " . . .	5	Maple Leaf M. Co.		
"	18 " . . . .	50945	J. P. Lebel, 69 Commissioner St., Montreal.	3 " . . .	8	Western Canada F. Mills Co.		Registered No. 63.
"	18 Middlings.	50946	" " . . . .	3 " . . .	7	Ogilvie F. Mills Co., Ltd.		
"	19 Shorts . . . .	50947	W. Lamarre & Co., Atwater Ave., Montreal.	3 " . . .	Nil.	Dom. Flour M. Co., Ltd.		
"	19 Middlings.	50948	F. X. Benoit, 201 St. Paul St., Montreal.	3 " . . .	5			
"	20 Shorts . . .	50949	F. Gobeille et fils, Henri Julian Ave., Montreal.	3 " . . .	Nil.	Robin Hood Mills, Ltd.		
"	7 Chop Feed	50951	Brennan Currie & Co., Place Youville, Montreal.	3 " . . .	"	McDonald Robb Co., Valleyfield, P.Q.		
"	18 " . . . .	50952	E. Benoit et fils, 181 St. Paul St., Montreal.	3 " . . .	5	W. L. Hogg, Montreal.		
"	16 Middlings.	50953	A. Guertin, 534 Notre Dame W., Montreal.	3 " . . .	Nil.	Dom Flour Mills Co., Ltd., Brantford, Ont.		



## SESSIONAL PAPER No. 14

## BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		Net Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		

*Continued.*

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
			14.39	4.36	9.9	16 Wild Oats.	Fuller's	50034	Genuine.
			14.74	5.04	9.8			50035	
			14.17	4.36	7.6			50036	
14.50	4.00	10.00	16.44	4.60	9.2			50037	Meets guarantee.
			14.57	3.82	6.7			50038	Genuine.
			17.29	4.84	7.3			50041	
			14.13	4.02	9.6	18 Wild Oats.	Campion's	50042	as to food value
			16.06	4.70	9.7			50043	
			16.78	4.08	9.6			50044	
18.38	6.02	7.99	17.98	5.22	5.1			50045	Meets guarantee.
			15.97	3.80	3.8			50046	Genuine.
			14.00	2.54	2.3			50047	
			16.84	4.00	3.6			50048	
			15.79	4.12	5.4			50049	
			16.10	3.54	7.6	3 Wild Oats.		50051	
			10.28	3.96	12.6	5		50052	High in fibre. Pass, as high in fat.
			14.83	3.24	3.3			50053	Genuine.



Date of Collection.	Nature of Sample.	No. of Sample	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF MONTREAL—

1912.								
Sept. 18	Chop Feed	50954	J. P. Lebel, 69 3 lbs.	5	Nil	Lake of the Woods M. Co., Ltd.		Kamoat Reg No. 50.
" 19	"	50955	A. Lamarre & Cie., 3 Atwater Ave., Montreal.	"	Nil	Vendor		
" 19	"	50956	F. X. Benoit, 201 3 St. Paul St., Montreal.	"	5			"Champion"
" 20	"	50957	F. Gobeille et fils, 3 Henri Julien Ave., Montreal.	"	Nil	John Mackays, Bowmanville, Ont.		Pure Mixed Feed.

DISTRICT OF OTTAWA—

Sept. 7	Bran	50288	C. Whitney & Son, 3 lbs. Prescott.	Nil	Ogilvie's Ltd.	Mfrs		
" 7	Shorts	50289	" " 3 "	"	"	"		
" 7	Chop Feed.	50290	" " 3 "	"	"	"		
Aug. 30	Bran	50291	W. C. Sylvester & Son, Vankleek Hill.	3 "	"	Vendors.		
" 30	Shorts	50292	" " 3 "	"	"	"		
" 30	Chop Feed.	50293	" " 3 "	"	"	"		
" 31	Bran	50294	A. V. McLean, 3 Perth, Ont	"	"	Campbell M. Co., Peterborough	Mfrs.	
" 31	Shorts	50295	" " 3 "	"	"	"	"	
" 31	Chop Feed.	50296	" " 3 "	"	"	"	"	
Sept. 6	Bran	50297	A. E. Cameron, 3 Brockville.	"	"	Ogilvie M. Co.	"	
" 6	Shorts	50298	H. Brown & Sons, 3 Brockville.	"	"	Quaker Oats Co., Peterborough.	"	
" 6	Chop Feed.	50299	A. E. Cameron, 3 Brockville.	"	"	Vendor.		
" 17	Bran	51614	The Maple Leaf M. Co., Ltd., Ottawa.	3 "	"	Vendors		
" 17	Shorts	51615	" " 3 "	"	"	"		
" 17	Bran	51616	The West-Canada F.M. Co., Ottawa.	3 "	"	"		Reg. No. 66. Protein 16.82 % Fat 5.5 % Fibre 10.86 %
" 17	Shorts	51617	" " 3 "	"	"	"		Reg. No. 63. Protein 18.38 % Fat 6.02 % Fibre 7.99 %



## SESSIONAL PAPER No. 14

## BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct	Fibre.	No. per lb.	Chiefly.		
<i>Concluded.</i>									
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
11.00	2.50	15.00	8.22	1.62	13.8			50954	Low in proteids as guaranteed. Adulterated
			10.25	5.30	8.2		6 Western False Flax ..	50955	Genuine.
			10.89	5.00	7.6		13 Small Wild Mustard ..	50956	
			12.60	3.14	9.1			50957	

## J. A. RICKEY, INSPECTOR.

			14.04	4.72	10.4			50288	Genuine.
			15.01	4.34	5.6			50289	
			10.14	5.40	6.2		9 Western False Flax ..	50290	
			16.23	3.68	6.9			50291	
			15.01	4.26	3.4			50292	
			13.47	3.26	5.2		48 Wild Mustard ..	50293	as to food value.
			13.82	4.34	8.5		48 Great Rug Weed, Sow Thistles, Canada Thistle.	50294	
			16.97	5.42	5.8		11 Wild Oats, Ball Mustard.	50295	
			12.60	2.84	9.8			50296	
			15.27	4.74	8.7			50297	
			16.93	4.94	4.6		352 Tumbling Mustard ..	50298	Genuine as to food value. High in weed seeds.
			10.60	5.36	7.3		18 Western False Flax, Wild oats.	50299	Genuine.
			14.26	4.28	8.7			51614	
			15.35	3.68	5.2			51615	
16.82	5.50	10.86	14.34	4.20	9.0		13 Wild oats, Wild Mustard, Hares Ear Mustard.	51616	Below guarantee in proteids. See note 1 p.
18.38	6.02	7.99	16.62	4.66	5.6			51617	Below guarantee. See note 2. Adulterated.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF OTTAWA—

1912.								
Sept. 17	Chop Feed.	51618	The West-Canada F.M.Co., Ottawa	3 lbs.	Nil.	Vendors		"Good Luck" Brand.
" 19	Bran	51620	J. A. Forward, Ottawa.	3 "	"	Lake of the Woods Milling Co.	Mfrs	
" 19	Shorts	51621	" "	3 "	"	" "	"	
" 19	Bran	51622	Wm. Scott & Co., Deschenes, P.Q.	3 "	"	Vendors		
" 19	Shorts	51623	" "	3 "	"	"		
" 19	Chop Feed.	51624	" "	3 "	"	"		Barley Chop.
" 20	"	51625	J. W. McKay, Ottawa.	3 "	"	W. R. Cummings, Cummings Bridge.	Mfr.	"All Grain."
" 20	"	51628	W. D. Ardley, Ottawa.	3 "	"	" "	"	
" 20	Bran	51629	A. Bergevin, Dalhousie St., Ottawa.	3 "	"	Ontario & Manitoba F.M.Ltd., Ottawa.	Mtrs	
" 20	Shorts	51630	" "	3 "	"	" "	"	
" 20	Shorts	51631	" "	3 "	"	Dowd Milling Co.	"	
" 20	Chop Feed.	51632	Larose Bros., Cumberland St. Ottawa.	3 "	"	Quaker Oats Co., Peterboro.	"	"Banner"—Reg. No. 16—Protein 8.5%—Fat 3.5%—Fibre 9.0%
" 20	"	51633	Larose Bros., Cumberland St., Ottawa.	3 "	"	Chisholm M. Co., Toronto.	"	"Crescent"—Reg. No. 84—Protein 9.0%—Fat 5.0%—Fibre 20.0%
" 20	Bran	51635	Ed. St. Germain, Byward Market, Ottawa.	3 "	"	Lake of the Woods M. Co., Keewatin.	"	No registered number on bags—Protein 14.5%—Fat 5.0%—Fibre 10%

DISTRICT OF KINGSTON—

Sept. 3	Bran	49570	Geo. Gibson, Kingston.	3 lbs.	5	Ogilvie Co.		
" 3	"	49571	W. P. Peters, Kingston.	3 "	10	Lake of the Woods M. Co., Ltd.		
" 3	"	49572	Hedley Shaw, Kingston.	3 "	10	Hedley Shaw Milling Co.		



## SESSIONAL PAPER No. 14

## BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.	
<i>Continued.</i>								
	p.c.	p.c.	p.c.	p.c.	p.c.			
			12.30	3.88	11.6	64	Wild Oats, Wild Mustard, Cow Cockle.	51618 Genuine as to analysis.
			11.78	4.86	9.6			51620 Genuine.
			16.90	4.74	5.2			51621
			14.83	4.74	10.2			51622
			15.22	4.40	8.9			51623
			11.40	1.88	4.4			51624
			10.98	4.28	6.0			51625
			11.17	2.32	5.4			51628
			14.78	4.34	8.8	1	Wild Oats.	51629
			17.39	5.04	4.9			51630
			17.19	4.76	4.9			51631
8.50	3.50	9.00	8.58	3.24	6.4	4	Wild mustard	51632 Mostly genuine.
9.00	5.00	20.00	11.03	3.42	16.1	9	Stinkweed	51633
14.50	4.00	10.00	15.14	4.58	8.8	3	Stinkweed.	51634

JAS. HOGAN, INSPECTOR.

11.17	4.28	10.5	49570	Genuine.
15.41	4.40	9.3	49571	
14.00	4.36	9.2	49572	



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF KINGSTON—								
1912.								
Sept.	3 Bran.....	49573	Kingston M. Co., Kingston.	3 lbs..	5	Vendors.....		
"	3 " .....	49574	J. A. MacFarlane, Kingston.	3 "	5	West F. M. Co.		
"	3 " .....	49575	D. Hutchison, Kingston.	3 "	5	Ogilvie Co.....		
"	4 " .....	49576	Anderson Bros., Kingston.	3 "		Hedley Shaw Milling Co.		
"	4 " .....	49577	C. H. Pickering, Kingston.	"	6		W. P. Peters, Kingston.	
"	11 " .....	49578	Campbell, C. M. Co., Peterboro.	3 "	5	Vendors.....		
"	11 " .....	49579	Quaker Oats Co., Peterboro.	3 "	5	" .....		
"	3 Shorts.....	49580	Kingston M. Co., Kingston.	3 "	5	" .....		
"	3 " .....	49581	D. Hutchison, Kingston.	3 "	5	Ogilvie Co.		
"	4 " .....	49582	Anderson Bros., Kingston.		10	Hedley Shaw M. Co.		
"	4 " .....	49583	J. Martin, Kingston.	3 "	5	Hedley Shaw M. Co.		
"	9 " .....	49585	H. E. Fairfield, Belleville.	3 "	5	Quaker Oats, Peterboro.		
"	9 " .....	49586	J. Panter & Son, Belleville.	3 "	5	J. Cook Hensall.		
"	10 " .....	49587	E. A. Duncans, Cobourg.	3 "	5	Ogilvie Co...		
"	10 " .....	49588	The Thompson Macdonald Co., Cobourg.	3 "	5	Leach Co., Oak Lake.		
"	11 " .....	49589	Campbell F. Mills Co., Peterboro.	3 "	5	Vendors...		
"	3 Chop Feed	49590	Geo. Gibson, Kingston.	3 "	5	Vendor .....		
"	3 " .....	49591	W. J. Peters, Kingston.	3 "	10	" .....		
"	3 " .....	49592	Kingston Milling Co., Kingston.	3 "	5	Vendors.....		
"	3 " .....	49593	J. A. Farlane, Kingston.	3 "	6	West. F. Mills Co.		
"	3 " .....	49594	D. Hutchison, Kingston.	3 "	5	Vendor... ..		
"	4 " .....	49595	Anderson Bros., Kingston.	3 "	10		W. J. Peters, Kingston.	
"	4 " .....	49596	C. H. Pickering, Kingston.	3 "	8		" .....	
"	4 " .....	49597	J. W. Martin, Kingston.	3 "	10	E. F. McBroon, Washburn.		
"	11 " .....	49598	Campbell F. Mills Co., Peterboro.	3 "	5	Vendors.....		
"	11 " .....	49599	Quaker Oats Co., Peterboro.	3 "	5	" .....		
"	11 Shorts.....	49600	" .....	3 "	5	" .....		



## SESSIONAL PAPER No. 14

## BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		Remarks and Opinion the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.	
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
			15.44	4.52	8.0			49573 Genuine.
			15.62	4.60	8.2			49574
			13.52	4.56	10.2			49575
			14.09	4.06	9.8			49576
			14.34	4.44	9.7			49577
			13.74	4.74	9.6			49578
			15.06	4.52	8.5			49579
			17.41	5.48	4.6			49580
			15.18	4.16	5.3			49581
			16.71	4.74	5.3			49582
			15.79	2.46	2.7			49583
			15.71	4.40	4.2			49584
			16.01	4.26	4.5			49585
			15.79	4.22	4.6			49587
			16.67	4.50	5.0			49588
			15.75	5.30	6.4			49589
			14.13	4.10	9.6	52 Wild mustard. Docks.		49590 Genuine as fed.
			10.95	5.20	8.2	64 False Flax. Stinkweed		49591
			10.71	3.76	9.5	4 False Flax.....		49592 Genuine.
			14.17	2.76	2.8	43 False Flax. Stinkweed		49593 Stinkweed.
			10.94	4.00	9.2	8 Campions		49594
			10.11	4.25	9.2	32 Campions. False Flax Ragweed. Stinkweed Wild mustard.		49595 Stinkweed.
			10.41	5.28	9.3	112 Wild oats. Wild mus- tard.		49596
			10.87	5.68	8.7	48 Wild oats.....		49597
			9.28	2.64	1.1			49598
			8.30	3.24	10.0	6 False Flax		49599 Low in proteids; but excess fat compensates
			17.06	4.36	5.5			49600 Genuine.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF TORONTO—								
1912.								
Sept. 18	Bran	51471	Jas. Pearson, 1948 Dundas St., West Toronto.	3 lbs.	5	.....	West. Canada M. Co., Toronto.	Reg. No. 66— Protein 16·82 Fat 5·5% Fibre 10·86
" 19	"	51472	Lewis & Steveson, 942 Bloor St., West Toronto.	3 "	5	Lake of the Woods M. Co. Ltd., Toronto.	.....	Bags are branded L. W. Bran. K.
" 23	"	51473	R. Knowles, 658 Yonge St., Toronto.	3 "	5	Alex. Brown M. & E. Co. Ltd., Toronto.	.....	Bags are branded with letter B.
" 23	"	51474	Wm. Stoughton, 439 Yonge St., Toronto.	3 "	5	The Campbell M. Co., Ltd., Toronto.	.....	"Bull Rush" Brand.
" 30	"	51475	Jas. Dunlop Co., Ltd., 127 John St. South Hamilton.	3 "	5	.....	S. Lukes Bradford.	.....
" 30	"	51476	J. Penfold, 98 John St., South Hamilton.	3 "	5	.....	Dom. F. M. Co. Ltd., Hamilton.	.....
" 30	"	51477	W. Pringle & Son, 280 York St., South Hamilton.	3 "	5	.....	Maple Leaf M. Co., Ltd., Port Colborne.	.....
" 30	"	51478	Bennett & Son, 188 King St., West Hamilton.	3 "	5	.....	Ker Milling Co., Dundas	.....
" 30	"	51479	A. Dymont & Son, Boston & Emerald Sts., Hamilton.	3 "	5	.....	Wood Milling Co., Ltd., Hamilton.	.....
" 30	"	51480	A. W. Swaize, 49 Barton St., East Hamilton.	3 "	6	.....	Seaforth Milling Co., Ltd. Seaforth.	Bags are branded—Seaforth M. Co Ltd., Bran — Seaforth.
" 18	Shorts	51481	H. Dent, 1523 Dundas st. West Toronto.	3 "	5	.....	Kewatin M. Co., Ltd., Toronto.	.....
" 19	"	51482	Chalmers Milling Co., East Toronto.	3 "	5	Vendors	.....	.....
" 19	"	51483	Elliott & Armstrong, 1554 Danforth ave., East Toronto.	3 1/4 "	5	West. Canada F. M. Co., Ltd., Toronto.	.....	Reg. No. 63, Protein 18·38 Fat 8·02 Fibre 7·99
" 19	"	51484	Crampsey & Kelly, 780 Dovercourt ave., Toronto.	3 "	5	Maple Leaf M. Co., Ltd., Toronto.	.....	Bags are Branded, Maple Leaf Milling Co., Ltd., Trade Mark reg. Maple Leaf.



## SESSIONAL PAPER No. 14

## BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		
16.82	5.50	10.86	14.92	4.12	8.0	32	Campeans, Hare's Ear mustard.	51471	Below guarantee in proteids. See 1—p.
			14.39	4.66	9.5			51472	Genuine.
			14.04	4.56	9.4			51473	
			14.39	4.50	9.6			51474	
			15.44	4.56	8.4	13	Wild oats.	51475	
			13.65	4.50	9.2	176	False Flax, Canada Thistle, Wild oats, Hare's Ear mustard.	51476	as to food value.
			15.57	4.62	7.2			51477	
			14.65	4.48	9.4			51478	
			14.04	4.20	8.2	649	Canada Thistle, False flax, Trifolium, mustard, Ducks, Campeans.	51479	Genuine as to food value, very high in weed seeds.
			13.91	4.60	9.7	32	Ryegrass, Wild oats.	51480	Genuine as to food value.
			17.46	4.72	4.7			51481	Genuine.
			16.72	4.58	2.3			51482	
18.38	6.02	7.99	16.44	4.46	7.5			51483	Below guarantee. Meets requirements for Shorts. See Note 2, p. adulterated.
			16.40	4.30	7.0			51484	Genuine.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF TORONTO—

1912.								
Sept. 19	Shorts	51485	G. Forsyth, 495 Bathurst, Toronto.	3 lbs.	5	Alex. Brown M. Co., Ltd., Toronto.		
" 20	"	51486	Geo. Forester, Newmarket.	3 "	5		Ogilvie Milling Co., Ltd., Montreal.	
" 23	"	51487	Lake of the Woods M. Co., Ltd., Newmarket.	3 "	5	Vendors...		
" 30	"	51488	D. Stein, 444 York st., Hamilton.	3 "	5	Dom. F. Mills Co., Ltd., Hamilton.		
" 30	"	51489	Geo. Matheson, 45 Wellington st. north, Hamilton.	3 "	5	The Ogilvie F. Mills Co., Ltd., Montreal.		
Oct. 1	"	51490	W. Kerns & Co., Burlington.	3 "	5	Unknown		
Sept. 18	Chop Feed (Screenings).	51491	The Campbell F. Mills Co., Ltd., West Toronto.	3 "	5	Vendors		Screenings from various kinds of grain
" 19	Chop Feed	51492	Wm. Hanna & Co., East Toronto.	3 "	5	"		Composed of Manitoba Wheat.
" 20	"	51493	Stiver Bros., Aurora.	3 "	10	"		
" 20	"	51494	J. Reynolds, Aurora.	3 "	10	The Campbell F. M. Co., Ltd., West Toronto.		
" 20	"	51495	W. J. Baldwin, Aurora.	3 "	5	Vendor		
" 20	"	51496	W. H. Eves, Newmarket.	3 "	5	"		
" 30	"	51497	Dom. Flour Mills Co., Ltd., 75 Main st east, Hamilton.	3 "	5	Vendors		
" 30	"	51498	Hamilton Milling Co., Market and Park sts., Hamilton.	4 "	5	"		
Oct. 1	"	51499	Kerr Milling Co., Ltd., Dundas.	3 "	5	"		
" 3	"	51500	Wm. Clark, 49 McNab st north, Hamilton.	3 "	5	"		

DISTRICT OF WINDSOR—

Sept. 30	Bran....	48127	A. M. Hamilton & Son, London.	3 lbs.	6	King Milling Co., Sarnia.		
" 30	Shorts ....	48128	"	3 "	6	Docter Milling Co., London.		



SESSIONAL PAPER No. 14

## BRAN, SHORTS, CHOP FEED.

Claim.		Results of Analysis.				Vital Weed Seeds		No. of Sample	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre	Proteids	Fat Direct.	Fibre.	No. per lb.	Grains		

*Concluded.*

p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
			14.57	4.14	5.5	4	Western False Flax	51485	Genuine
			16.10	4.60	6.4			51486	
			17.02	4.90	6.4			51487	
			15.92	4.72	5.1	128	Western False Flax, False Flax Stockweed, Ball mustard, Wild mustard	51488	Genuine as to food value
			15.75	4.74	4.6	64	False Flax, Wild mustard	51489	
			15.44	3.80	6.7	64	Wild oats	51490	
			12.26	3.36	12.1	96	Hemp's Flax, mustard, Campions, Stockweed	51491	
			13.26	2.64	3.6			51492	Genuine
			12.64	2.44	4.1	14	Wild mustard	51493	
			13.21	2.54	2.7	11	Wild oats, Ball mustard	51494	
			13.15	2.98	4.2	208	False Flax, Campions, Docks, Wild mustard	51495	Genuine as to food value
			9.90	4.72	12.3			51496	Genuine
			12.43	3.20	4.9	288	False Flax, Wild oats	51497	Genuine as to food value
			13.21	2.88	4.1	10	Campions, False Flax	51498	Genuine
			11.84	4.76	7.8			51499	
			13.36	2.48	3.1			51500	

JNO. TALBOT, INSPECTOR.

			15.09	4.44	9.3	96	Docks, Wild oats, Wild mustard	48127	Genuine as to food value
			16.23	4.40	7.0			48128	Genuine



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF WINDSOR--								
1912.								
Sept. 30	Chop Feed.	48129	A. M. Hamilton & Son, London.	3 lbs.	6	Vendors		
" 30	Shorts ....	48130	Jas. Twitchen, London...	3 "	4	Docter & Son, London.		
" 30	Bran ....	48131	" "	3 "	4	J. Hawkins, St. Johns.		
" 30	Chop Feed	48132	" "	3 "	5	A. J. Sutherland, London.		
" 30	Shorts ....	48133	R. Hookway & Son, London.	3 "	7	Docter & Son, London.		
" 30	Bran.....	48134	" "	3 "	7	" "		
" 30	Chop Feed	48135	" "	3 "	7	Hunt Bros., London.		Corn chop....
" 30	Bran. ....	48136	Leith & Staples, London East.	3 "	5	"		
" 30	Shorts ....	48137	" "	3 "	5	" "		
" 30	Bran.....	48138	Adams & Tauton, London.	3 "	5	Harvey Bros., Exeter.		
" 30	Shorts ....	48139	" "	3 "	5	E. Docter & Son, London.		
" 30	Chop Feed	48140	" "	3 "	5	Unknown		Corn chop..
Oct. 2	Bran. ....	48141	C. & J. Morrison, Petrolia.	3 "	5	C. B. Matthews & Son, Watford.		
" 2	Shorts ....	48142	" "	3 "	5	Empire F. Mills, St. Thomas.		
" 2	Chop Feed	48143	" "	3 "	5	Vendors.....		
" 2	Shorts ....	48144	John Bickle & Co., Petrolia.	3 "	Nil.	Lake of the Woods M. Co.		
" 2	Bran ....	48145	" "	3 "	"	" "		
" 2	Chop Feed	48146	" "	3 "	"	Vendors...		
" 3	Shorts ....	48155	Gardener Bros., Sarnia.	3 "	5	Lake of the Woods M. Co.		
" 3	Bran.....	48156	" "	3 "	4	" "		
" 4	Shorts ....	48163	R. M. Pincombe, Strathroy.	3 "	Nil.	Vendor.....		
" 4	Bran.....	48164	" "	3 "	"	"		
" 4	Chop Feed	48165	" "	3 "	"	"		
" 4	Chop Feed	48166	S. S. Donaldson, Strathroy.	3 " ..	"	"		
" 4	Shorts ....	48167	" "	3 " ..	"	"		
" 4	Bran.....	48168	" "	3 " ..	"	"		



## SESSIONAL PAPER No. 14

## BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		
<i>Concluded.</i>									
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
			11.51	3.78	6.0			48129	Genuine.
			16.80	5.8	9.1	....		48130	
			15.02	4.54	9.9	1 Ragwort		48131	
			8.46	2.08	6.6	48 Wild Mustard 1. Docks.		48132	Low in proteids. Adulterated.
			16.40	4.90	6.5			48133	Genuine.
			13.56	4.50	9.7	66 Purple Cuckoo-Pint mustard. Wild mustard. Hare's Ear mustard.		48134	as to food value.
			8.68	3.81	1.9			48135	
			15.40	4.60	9.7			48136	
			15.79	4.34	6.0			48137	
			13.74	4.48	9.8			48138	
			16.06	5.16	6.6			48139	
			8.90	3.32	1.6	1 Hare's Ear mustard...		48140	
			13.74	4.16	6.1			48141	
			16.40	4.90	4.4			48142	
			12.43	2.10	3.8	4 Wild oats.		48143	
			17.86	4.42	4.1			48144	
			14.09	4.00	5.8			48145	
			11.33	3.46	7.7	13 Docks. Campions...		48146	
			17.02	4.90	5.8			48155	
			15.53	4.52	9.9			48156	
			14.88	3.54	4.9			48163	
			13.39	4.12	9.0	5 Wild oats.		48164	
			11.55	2.78	6.6	32 Docks. Campions.		48165	as to food value.
			11.88	4.20	7.1			48166	
			15.05	4.00	4.6	16 False Flax.		48167	
			12.47	4.08	8.5			48168	Low in proteids compensating fat and fibre.



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.		

DISTRICT OF MANITOBA

1912.								
Oct.	1	Bran. ....	48751 The Lake of the Woods M. Co., Portage La Prairie.	3lbs	Nil.	Vendors .....		
"	2	" .....	48752 Western Canada F. Mills Co., Brandon.	3 "	"	" .....		
"	2	" .....	48753 Maple Leaf Milling Co., Brandon.	3 "	"	" .....		
"	2	" .....	48754 G. McCulloch & Sons, Souris.	3 "	"	" .....		
"	3	" .....	48755 Leitch Bros. M. Co., Oak Lake.	3 "	"	" .....		
"	4	" .....	48756 The Ogilvie F. Mills Co., Winnipeg.	3 "	"	" .....		
"	4	" .....	48757 Western Canada F. Mills Co., St. Boniface.	3 "	"	" .....		
"	1	Shorts ....	48761 The Lake of the Woods M. Co., Port La Portage.	3 "	"	" .....		
"	2	" .....	48762 Western Canada F. M. Co., Brandon	3 "	"	" .....		
"	2	" .....	48763 Maple Leaf M. Co., Brandon.	3 "	"	" .....		
"	2	" .....	48764 G. McCulloch & Sons, Souris.	3 "	"	" .....		
"	3	" .....	48765 Leitch Bros. M. Co., Oak Lake.	3 "	"	" .....		
"	4	" .....	48766 The Ogilvie F. Mills Co., Win- nipeg.	3 "	"	" .....		
"	4	" .....	48767 Western Canada F. M. Co., St. Boni- face.	3 "	"	" .....		
"	1	Chop Feed	48771 The Lake of the Woods M. Co., Portage La Prai- rie.	3 "	"	" .....		
"	2	" .....	48772 Western Canada F. M. Co., Bran- don.	3 "	"	" .....		Oat Chop ....
"	2	" .....	48773 " " " "	3 "	"	" .....		Barley Chop..
"	2	" .....	48774 G. McCulloch & Sons, Souris.	3 "	"	" .....		Oat Chop ....
"	4	" .....	48775 The Ogilvie F. Mills Co., Win- nipeg.	3 "	"	" .....		" .....
"	4	" .....	48776 The Ogilvie F. M. Co., Winnipeg.	3 "	"	" .....		Barley Chop..
"	4	" .....	48777 West Canada F. Mills Co., St. Boniface.	3 "	"	" .....		Oat Chop ....
"	4	" .....	48778 " " " "	3 "	"	" .....		Barley Chop..



SESSIONAL PAPER No. 14

## BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		

## A. C. LARIVIERE, INSPECTOR.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
			14.83	4.88	9.7	32 Wild Oats	Stink	48751	Genuine as to food value
						Weed.			
			16.67	4.78	8.5			48752	Genuine.
			16.41	5.12	9.3			48753	
			15.35	4.44	8.6	23 Campions		48754	
			14.83	5.20	8.6			48755	
			15.35	5.04	8.7			48756	
			16.93	5.06	7.8			48757	
			17.41	5.40	3.1			48761	
			17.02	4.54	5.7	18 Wild Oats.	Campions.	48762	
			17.72	5.54	5.6	Ball Mustard.		48763	
			18.07	5.12	4.3			48764	
			16.44	5.08	6.6			48765	
			17.41	4.52	5.1			48766	
			16.73	4.78	4.6			48767	
			11.16	2.64	4.4	5 Wild Oats		48771	
			13.15	4.86	7.9	544 Wild Oats	Stink	48772	as to food value
						Weed.	Stickseed.		very high in weed seeds.
						Ball Mustard.			
			13.30	2.48	4.7	13 Wild Oats.	Cow	48773	Genuine.
			14.28	4.60	12.3	Cockle.		48774	
			10.25	5.12	4.8			48775	
			11.80	2.24	4.6	1,104 Wild oats.	Stickseed.	48776	Genuine as to food value
						Campions.	Stink		Very high in weed seeds.
			10.60	3.46	8.0	weed.		48777	Genuine.
			12.06	2.54	5.8	48 Campions.	False flax.	48778	as to food value.
						Ball mustard.			



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NELSON—								
1912.								
Sept.	3 Shorts . . . .	49675	Taylor M. & E. Co., Neison, B.C.	3 lbs.	10	Macleod Milling Co., Macleod.		
"	3 " . . . .	49676	" " "	3 "	"	Taylor M. & Co., Lethbridge.		
"	3 Bran . . . .	49677	" " "	3 "	"	" "		
"	3 Chop Feed	49678	" " "	3 "	"	" "		Chopped Oats.
"	3 " "	49679	Brackman Ker M. Co., Nelson, B.C.	3 "	"	Brackman Ker M. Co., Strathcona, Alta.		" National."
"	3 " "	49680	" " "	3 "	"	" "		Chicken. . . .
"	3 " "	49681	" " "	3 "	5	" "		Dairy. . . . .
"	3 Bran . . . . .	49682	" " "	3 "	10	Ellison Mill & E. Co., Lethbridge		
"	3 " . . . . .	49683	" " "	3 "	"	Robin Hood Mills, Calgary.		
"	6 " . . . . .	49698	Smith & Welsh, Merritt, B.C.	3 "	"	Vanc. Mill & G. Co., Vancouver		
"	6 Shorts . . . .	49699	" " "	3 "	"	" "		
"	6 Chop Feed	49700	" " "	3 "	"	Calgary M. Co., Calgary.		Wheat and Barley.
"	9 Bran . . . .	49729	Browne Bros., Revelstoke, B.C.	3 "	"	Ogilvie M. Co., Winnipeg.		
"	9 Shorts . . . .	49730	" " "	3 "	"	" "		
"	10 Bran . . . .	49739	C. B. Hume & Co., Revelstoke, B.C.	3 "	"	Robin Hood F. M. Co., Calgary.		
"	10 Shorts . . . .	49740	" " "	3 "	"	" "		
"	23 Bran . . . .	49749	C. A. Warren, Golden, B.C.	3 "	"		Brackman Ker M. Co., Calgary.	
"	23 Shorts . . . .	49750	" " "	3 "	"		" "	
"	23 Bran . . . . .	49757	H. G. Parson, Ltd., Golden, B.C.	3 "	"	Robin Hood M. Co., Moosejaw		
"	23 Shorts (Middlings).	49758	H. J. Parson, Ltd., Golden, B.C.	3 "	"			
"	23 Bran . . . . .	49763	C. R. Lumber Co., Golden, B.C.	3 "	"	Alberta Pacific E Co., Calgary.		
"	23 Shorts . . . .	49764	C. R. Lumber Co., Golden, B.C.	3 "	"	Alberta Pacific E Co., Calgary.		
"	25 Bran . . . . .	49773	C. B. Hume & Co., Arrowhead, B.C.	3 "	"	Robin Hood Mills, Moosejaw.		
"	25 Shorts . . . .	49774	C. B. Hume & Co., Arrowhead, B.C.	3 "	"	Robin Hood Mills, Moosejaw.		
"	25 " . . . .	49775	Reid & Young, Arrowhead, B.C.	3 "	15	Ellison M. & E. Co., Lethbridge.		



SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		
THOS. PARKER, INSPECTOR									
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
...	...		15.09	4.06	3.4		...	49675	Genuine.
			13.78	2.04	1.4		...	49676	Low in proteids and fat. Adulterated.
			16.10	4.70	8.3			49677	Genuine.
			9.64	5.44	9.7			49678	
			9.41	2.52	13.7			49679	High in fibre. Adulterated.
			17.76	6.26	5.3	64 Ball mustard.		49680	Genuine as to food value.
			9.55	4.32	18.2			49681	High in fibre. Compensating fat—2.32.
			16.49	4.48	8.7	48 Hares Ear mustard Wild oats.		49682	Genuine as to food value.
			15.01	5.00	9.4			49683	Genuine.
			14.88	5.00	8.9			49698	
			15.97	4.68	5.4			49700	
			12.95	2.38	3.5			49729	
			13.78	4.24	10.3			49730	
			16.54	3.88	3.7			49739	
			13.74	4.02	8.4			49740	
			16.27	4.46	4.1			49749	
			17.46	4.78	7.6			49750	
			15.92	4.04	5.8			49757	
			15.18	4.56	8.4			49758	
			18.07	5.38	3.4			49763	
			15.92	4.84	7.9			49764	
			15.97	5.08	3.6			49773	
			13.87	4.26	8.4			49774	
			16.06	4.52	2.8	16 False Flax. Stinkweed.		49775	
			16.67	3.56	5.7				



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VANCOUVER—

1912.								
Oct.	1	Bran	38449 F. T. Vernon, Vancouver, B.C.	3 lbs.	20	Robin Hood Mills, Moosejaw, Sask.		
"	1	"	38450 Brackman Ker M. Co., New Westminster, B.C.	3 "	Nil.	Sask. F. Mills, Moosejaw, Sask.		
"	2	"	38451 McLellan McCarter, Ltd., Vancouver, B.C.	3 "	"	Vancouver Milling Co., Vancouver.		
"	2	"	38452 Vancouver Milling Co., Vancouver, B.C.	3 "	"	Vendors.....		
"	2	"	38453 Henry Holtz & Co., Vancouver, B.C.	3 "	"	Vancouver Milling Co., Vancouver.		
"	3	"	38454 Brown & Howey, Vancouver, B.C.	3 "	"	Robin Hood F. M. Moosejaw, Sask.		
"	3	"	38455 Donaldson & MacDonald, Vancouver, B.C.	3 "	"	Vancouver Milling Co., Vancouver.		
"	3	"	38456 Hall & Willis, Vancouver, B.C.	3 "	"	Ellison M. Co., Lethbridge, Alta.		
"	9	"	38457 Brackman Ker M. Co., Vancouver, B.C.	3 "	"	Ellison M. Co., Lethbridge, Alta.		
"	10	"	38458 Gibson & Brown, Vancouver, B.C.	3 "	"	Robin Hood M. Co., Moosejaw, Sask.		
"	1	Shorts ....	38459 F. T. Vernon, Vancouver, B.C.	3 "	"	Robin Hood M. Co., Moosejaw, Sask.		
"	1	"	38460 Brackman Ker M. Co., Vancouver, B.C.	3 "	"	Sask. Milling Co., Moosejaw, Sask.		
"	2	"	38461 McLellan & McCarter Co., Vancouver, B.C.	3 "	"	Vancouver Milling Co., Vancouver.		
"	2	"	38462 Vancouver Milling Co., Vancouver, B.C.	3 "	"	Vendors .....		
"	2	"	38463 Henry Holtz & Co., Vancouver, B.C.	3 "	"	Vancouver Milling Co., Vancouver.		
"	2	"	38464 Donaldson & MacDonald, Vancouver, B.C.	3 "	"	Vancouver Milling Co., Vancouver.		
"	4	"	38465 Hall & Willis, Vancouver, B.C.	3 "	Nil.	Ellison Milling Co., Lethbridge, Alta.		
"	4	"	38466 Brackman Ker M. Co., Vancouver, B.C.	3 "	"	"		



SESSIONAL PAPER No. 14  
BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		

J. F. POWER, INSPECTOR.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
		....	15.95	4.84	9.3	11 Wild Mustard. Hares Ear Mustard.		38449	Genuine
			14.92	4.90	8.9			38450	
			14.92	5.16	9.3	128 Stinkwood Wild Mustard.		38451	Genuine as to food value.
			14.57	5.02	9.5			38452	Genuine.
			14.74	4.98	8.8			38453	
			14.61	4.90	8.7	32 Stinkwood. Hares Ear Mustard.		38454	Genuine as to food value.
			15.27	4.52	8.2			38455	Genuine.
		....	17.46	4.00	8.6			38456	"
			15.41	4.64	9.1			38457	"
			15.81	4.78	7.9			38458	
			13.34	4.32	6.4			38459	Low in proteids, 1.66-Adulterated.
			15.01	4.96	8.0			38460	Genuine.
			15.48	4.72	5.6			38461	
			15.75	5.06	5.0			38462	
			15.62	4.64	5.3			38463	
			13.91	4.16	5.7			38464	Low in proteids, 1.19-Adulterated.
		....	17.23	3.96	3.9			38465	Genuine.
		....	16.93	3.38	5.4			38466	"



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VANCOUVER—

1912.								
Oct.	4	Shorts . . . .	38467 Gibson & Brown, Vancouver, B.C.	3 lbs.	Nil.	Robin Hood M. Co., Moosejaw Sask.		
"	4	" . . . .	38468 A. E. Burnett & Co., Vancouver, B.C.	3 "	"	"		
"	4	Chop Feed.	38469 F. T. Vernon, Vancouver, B.C.	3 "	"	Vendor . . . . .		
"	4	"	38470 Brackman Ker M. Co., New Westminster, B.C.	3 "	"	Vendors . . . . .		
"	2	"	38471 McLellan & McCarter Co., Vancouver, B.C.	3 "	"	"		
"	2	"	38472 Vancouver Milling Co., Vancouver, B.C.	3 "	"	"		
"	2	"	38473 Brown & Howey, Vancouver, B.C.	3 "	"	"		
"	3	"	38474 Donaldson & MacDonald, Vancouver, B.C.	3 "	"	A. E. Burnett & Co., Vancouver.		
"	4	"	38475 Hall & Willis, Vancouver, B.C.	3 "	"	"		
"	9	"	38476 Brackman Ker M. Co., New Westminster, B.C.	3 "	"	Vendors . . . . .		
"	10	"	38477 Gibson & Brown, Vancouver, B.C.	3 "	"	Brown & Howey, Vancouver.		
"	10	"	38478 A. E. Burnett & Co., Vancouver, B.C.	3 "	"	Vancouver M. Co., Vancouver		

DISTRICT OF VICTORIA—

Oct.	24	Bran. . . .	49251 Brackman Ker Milling Co., Ltd., Victoria, B.C.	3 lbs.	3	Robin Hood M. Ltd., Calgary, Alta.		Crude Protein 16·25%, Crude Fat 5·20%, Crude Fibre 9·80%.
"	24	" . . . .	49252 " . . . .	3 "	4	Ogilvies F. M., Ltd., Winnipeg		
"	24	" . . . .	49253 " . . . .	3 "	5	Ellison M. & E. Co., Ltd., Lethbridge.		
"	24	Shorts . . . .	49254 " . . . .	3 "	5	"		
"	24	"	49255 " . . . .	3 "	5	Robin Hood M. Co., Ltd., Calgary, Alta.		
"	24	"	49256 " . . . .	3 "	5	Ogilvies F. M. Co., Ltd., Winnipeg.		"Nestor's" Feed Flour.



SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		

J. F. POWER, INSPECTOR—*Concluded.*

p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
			16.80	5.10	4.5			38467	Genuine.
			16.84	4.72	4.8			38468	
			10.02	6.68	8.6	48	Wild oats.	38469	Genuine as to food value.
			10.41	3.36	8.1	112	Wild oats.	38470	
			10.76	2.94	2.1	64	False flax. Ball must- ard.	38471	
			12.92	4.98	5.3			38472	Genuine.
			11.16	3.82	6.2	80	Wild oats. Wild mustard.	38473	Genuine as to food value.
			13.36	5.06	8.1	17	Wild oats. Ball must- ard. Hare's ear must- ard.	38474	Genuine.
			11.08	5.82	7.5	432	Wild oats. Ball must- ard.	38475	Genuine as to food value very high in weedseeds.
			10.28	4.94	8.6	8	Wild oats.	38476	Genuine.
			10.11	3.28	1.8			38477	
			11.11	2.62	2.2	3	Ball mustard.	38478	

D. O'SULLIVAN, INSPECTOR.

16.25	5.20	9.80	15.71	4.96	8.4	6	Wild oats. Hare's ear mustard.	49251	Meets guarantee.
			13.82	4.64	10.3	21	Wild oats.	49252	Genuine.
			18.29	4.74	7.7			49253	
			18.20	4.00	4.6			49254	
			17.90	4.90	4.1			49255	
			17.28	4.12	4.0			49256	



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF VICTORIA—								
1912.								
Oct. 24	Shorts ....	49257	Brackman Ker Milling Co., Ltd., Victoria, B.C.	3 lbs.	4	Robin Hood M. Ltd., Calgary, Alta.		
" 24	Chop Feed	49258	" ..	3 "	4	Vendors.....		"B & K Corn Chop" Protein 9.0%, Fat 4.0%, Fibre 8.0%, Reg. No. 136.
" 24	"	49259	"	3 "	4	Vendors.		B. & K. Oat Feed. Protein 7.0%— Fat 3.0%— Fibre 15.0% —Reg. No. 137.
" 24	"	49260	"	"	4	"		Jersey Dairy Feed. Protein 18.0%— Fat 5.0%— Fibre 10.0% —Reg. No. 138.
" 24	"	49261	" ..	"	4	"		B. & K. Chicken Chop. Reg. No. 154.
" 24	"	49262	" ..	"	4	"		Soy Bean Oil Feed. Protein 45.0%— Fat 8.0%—
" 24	Bran.....	49263	Scott & Peden, Victoria, B.C.	"	5	Robin Hood Mills, Ltd., Calgary, Alta.		Crude Protein 16.25% — Crude Fat 5.20%—Crude Fibre 9.80%.
" 24	" .....	49264	"	"	5	Lake of the Woods M. Co., Ltd., Portage La Prairie.		Crude Protein 14.5%—Crude Fat 4.0%— Crude Fibre 10.0%.
" 24	Shorts ....	49265	"	"	5	"		
" 24	"	49266	" ..	"	5	Ellison M. & E. Co., Ltd., Lethbridge, Alta.		
" 24	Chop Feed.	49267	" ..	"	10	Vanc. M. & Grain Co., Ltd., Van- couver, B.C.		
" 25	Bran	49268	J. B. Kelly, Sid- ney B.C.	"	5	Ogilvie F. M. Co., Ltd., Winnipeg		
" 25	Shorts ....	49269	" ..	"	5	Med. Hat M. Co., Ltd., Med. Hat, Sask.		



## SESSIONAL PAPER No. 14

## BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		
			15.40	3.62	2.5			49257	Genuine.
9.00	4.00	8.60	10.18	3.52	6.8	21	Ball mustard. Wild mustard.	49258	
7.00	3.00	15.00	12.34	3.62	17.9			49259	Meets guarantee.
18.00	5.00	10.00	15.44	4.40	11.1			49260	Below guarantee in proteids. Adulterated.
15.00	5.00	5.00	14.44	4.24	4.9			49261	Meets guarantee.
15.00	8.00		15.50	8.14	4.8			49262	
16.25	5.20	9.80	15.05	4.84	8.3	16	Wild oats, wild mustard.	49263	
14.50	4.00	10.00	15.27	4.78	9.2	21	Stinkweed.	49264	
			16.84	5.30	5.8	32	Stinkweed, ball mustard.	49265	Genuine as to food value.
			16.27	4.14	2.8	21	Wild oats.....	49266	Genuine.
			11.46	3.48	8.0			49267	
			14.83	4.74	10.4			49268	
			16.63	5.30	4.1			49269	

*Continued.*



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VICTORIA—

1912.								
Oct.	25	Shorts ....	49270 J. B. Kelley, Sidney, B.C.	3 lbs.	5	West. Canada F. Mills, Ltd., St. Boniface, Man.		Protein 18.38% —Fat 6.02%— Fibre 7.99%.
"	25	Chop Feed.	49271 " "	"	10	Brackman Ker M. Co., Ltd., Victoria, B.C.		Protein 45.0% —Fat 8.0%.
"	26	Bran.....	49272 Sylvester Feed Co., Victoria, B.C.	"	5	Robin Hood Mills, Ltd., Calgary, Alta.		
"	26	Shorts ....	49273 " "	"	5	"		
"	30	Bran.....	49274 Vanc. Milling & Grain Co., Ltd., Kingston and Victoria, B.C.	"	5	Vanc. M. and Grain Co., Ltd., Vanc., B.C.		
"	30	Shorts ...	49275 " "	"	5	"		
"	30	Chop Feed.	49276 " "	"	5	"		
"	30	"	49277 " "	"	5	"		" Milk Feed".
"	30	"	49278 " "	"	10	Pacific Oil Mills, Seattle, Wash.		" Proteing Soy Bean."
"	1	Brnn.....	49279 Simon Leiser & Co., Ltd., Yates St., Victoria, B.C.	"	Nil.	Vanc. M. and Grain Co., Ltd., Vanc., B.C.		
"	31	"	49280 " "	"	"	Ogilvie F. Mills, Ltd., Winnipeg		



SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		

Concluded.

p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
18.38	6.02	7.90	18.38	5.60	4.8			49270	Meets guarantee.
45.00	8.00		43.00	8.44	4.3			49271	Low in proteids 2.0. special feed; technical adulterated.
			11.96	4.62	8.6	112	Wild Oats, Hare's Ear Mustard, Wild Mustard.	49272	Genuine as to food value.
			17.5	5.40	5.0			49273	Genuine.
			16.27	5.20	8.8	15	Stinkweed, Wild Mustard.	49274	
			13.61	4.38	6.4			49275	Low in proteids. Adulterated.
			11.61	3.00	9.1	2	Ball Mustard	49276	Genuine.
			11.81	3.22	12.0			49277	
			42.76	8.52	4.6			49278	Should be sold with guarantee. Doubtful.
			15.62	4.60	7.6			49279	Genuine.
			14.83	4.62	9.4	256	Hare's Ear Mustard..	49280	as to food value



APPENDIX S.

BULLETIN No. 255—SWEET SPIRIT OF NITRE.

OTTAWA, March 28, 1913.

WM. HIMSWORTH, Esq.,  
Acting Deputy Minister,  
Inland Revenue.

SIR,—I beg to hand you a report upon 73 samples of Sweet Spirit of Nitre, obtained by our inspectors during December, 1912, and January, 1913.

The report shows that 41 samples contain the legal amount of Ethyl Nitrite, while 32 samples contain less than the minimum permitted by the British Pharmacopœia.

This important drug has on two former occasions been the subject of inspection, and has always been found to show a high percentage of adulteration; consisting not in the addition of foreign matters, but in containing less of the active principle (Ethyl Nitrite) than the standard set by the pharmacopœias requires.

As has been pointed out in former bulletins, and emphasized by the pharmacopœias, the article is prone to decomposition; and, unless kept with special care, will always deteriorate in the hands of the dealer. This fact is so well known to the drug trade that physicians have a right to expect special care on the part of the druggist, who is properly held responsible for the quality of the drugs he dispenses. The following table presents the results of three inspections of Sweet Spirit of Nitre:—

Bulletin.	Year.	Total samples.	Genuine.	Adulterated.
			p.c.	p.c.
167.....	1908	77	37	63
234.....	1911	74	57	43
255.....	1913	73	56	44

The minimum amount of Ethyl Nitrite required by the British Pharmacopœia is one and three-quarters per cent (1.75) by weight. Of the collection now reported, 44 per cent of the samples contain less than this amount; 30 per cent contain less than 1 per cent of Ethyl Nitrite; 14 per cent contain less than one-half of 1 per cent; while nearly nine per cent of the samples contain none at all.



## SESSIONAL PAPER No. 14

Although the names of the manufacturers, or furnishers, as supplied by the vendor, are given in their proper places in the appended table, it is but right to insist that responsibility for the quality of Sweet Spirit of Nitre should rest upon the immediate dealer, or vendor of the article. There is no reason to believe that any manufacturer of repute furnishes this drug otherwise than up to standard strength. The name of the manufacturer or furnisher is given in accordance with Section 19 of the Act, and not because of any proved negligence on his part.

It is abundantly evident, in view of the continued sale of this drug in a condition in which it seriously handicaps the physician, and imperils the well-being of the patient, that druggists must be made to realize their responsibility in dispensing drugs which fail to meet the standard set by the pharmacopœias.

I beg to recommend publication of this report as Bulletin 255.

I have the honour to be, Sir,

Your obedient servant.

A. MCGILL,  
*Chief Analyst.*

## NOTE.

It seems proper to explain that there is always considerable delay in publishing the results of analysis, due to correspondence with manufacturers and vendors, involving weeks or months in some instances. In the present case, collection of samples was made by our inspectors between the 15th December, 1912, and the 30th January, 1913. The samples were contained in 2-ounce bottles and quite filled. On receipt here they were at once placed in a dark refrigerator. Analysis was begun on the 15th January, and very few samples were more than two or three weeks in storage.

Under these conditions, I cannot believe that deterioration proceeded while the samples were in the possession of the department.

Experiments made by the late Franklin T. Harrison, Public Analyst, proved that Sweet Spirit of Nitre made according to British Pharmacopœial directions can be kept, without change, for a year, under proper precautions. (See Bull No. 23, p. 7.)

If this important drug cannot be procured by physicians in such condition as the pharmacopœia requires, it should either be removed from the pharmacopœia altogether, or physicians must learn to employ it in full knowledge of its doubtful character and be prepared for most erratic and uncertain results.

The fact is that it can be prepared and kept by careful and intelligent druggists, and that this is not done must be regarded as a disgrace to the drug trade, and a very serious menace to the public.



BULLETIN No. 255—SPIRIT OF NITROUS ETHER.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.		Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			Remarks and Opinion of the Chief Analyst.
			Quantity.	Cents.	Manufacturer.	Furnisher.	Sp. Gr. at 15° C.	Ratio of vol. of Gas to vol. of Liquid.		Ethyl Nitrite per cent by weight.	No. of Sample.		
DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.													
1913.													
Jan. 14	Spirit of Nitrous Ether.	46641	6 oz.	60	Unknown	Unknown	Nat. Drug Co., Halifax, N.B.	Mfrs.		0.840	8.96	3.26	46641 Genuine.
" 16	"	46642	6 "	60	Buckley Drug Co., Halifax, N.S.		Howard & Sons, London, Eng.	E. B. Sutcliffe, Halifax, N.B.		0.859	2.77	1.01	46642 Adulterated.
" 16	"	46643	6 "	60	J. McD. Taylor, Halifax, N.S.		"	"		0.847	1.42	0.59	46643 "
" 16	"	46644	6 "	50	Jas D. Walsh, Halifax, N.S.		"	"		0.848	2.52	0.91	46644 "
" 20	"	46645	6 "	40	H. E. Wilson, Windsor, N.S.		Lymans Ltd., Montreal.	Mfrs.		0.863	6.64	2.41	46645 Genuine.
DISTRICT OF PRINCE EDWARD ISLAND—WM. A. WEEKS, INSPECTOR.													
Jan. 6	Spirit of Nitrous Ether.	46354	6 oz.	60	Geo. E. Hughes, Charlottetown, P.E.I.		Lymans' Ltd., Montreal.			0.845	3.79	1.14	46354 Adulterated.
" 7	"	46355	6 "	60	D. O. M. Reddin, Charlottetown, P.E.I.		"			0.853	2.67	0.97	46355 "
" 7	"	46356	6 "	75	J. G. Jamieson, Charlottetown, P.E.I.		Lyman's Ltd., (Special) Montreal.			0.855	2.86	1.04	46356 "
" 13	"	46357	6 "	60	The Two Mac's, Charlottetown, P.E.I.		Lyman Sons & Co., Montreal.			0.843	1.62	0.59	46357 "
" 14	"	46358	6 "	60	F. W. Jardine, Kensington, P.E.I.		Evans Sons Lescher & Webb, Ltd., Liverpool, Eng.			0.850	2.01	0.73	46358 "



DISTRICT OF NEW BRUNSWICK JOHN C. FERGUSON, INSPECTOR

1911

Dec. 19	Spout of Nitrous Ether.	50530 The Nat. Drug Co., Ltd., St. John, N. B.	60	Nat. Drug Co., Ltd., Montreal	0.832	7.53	2.74	50530 Genuine.
24		50531 The Canadian Drug Co., Ltd., St. John, N. B.	50	E. Meck, Darmstadt, Germany	0.844	7.62	2.77	50531
Jan. 9		50532 Ford, Co., Ltd., Woodstock, N. B.	20	Vendors	0.884	7.57	2.85	50532
16		50533 Logan, Drug Co., Moncton, N. B.	60	M. H. Knickerbocker, W. L. S., St. John, N. B.	0.823	9.57	3.48	50533
16		50534 Foodwater, Ross, Moncton, N. B.	50	Nat. Drug Co., Ltd., St. John, N. B.	0.849	5.53	2.06	50534

DISTRICT OF NEW BRUNSWICK JOHN C. FERGUSON, INSPECTOR

1912

Dec. 18	Spout of Nitrous Ether.	37282 A. Martin, 6734 6th Ave., St. John, N. B.	60	W. B. Knickerbocker, W. L. S., St. John, N. B.	0.950	0.00	0.00	37282 Adulterated ethyl nitrite
18		37283 J. McLean, 895 6th Ave., St. John, N. B.	50	N. B. Knickerbocker, W. L. S., St. John, N. B.	0.827	5.48	2.60	37283 Genuine
18		37284 J. B. Gauthier, 285 6th Ave., St. John, N. B.	40	E. B. Knickerbocker, W. L. S., St. John, N. B.	0.951	0.00	0.00	37284 Adulterated ethyl nitrite
18		37285 W. B. Knickerbocker, 150 6th Ave., St. John, N. B.	60	W. B. Knickerbocker, W. L. S., St. John, N. B.	0.927	0.00	0.00	37285
18		37286 L. E. Martin, 1116 6th Ave., St. John, N. B.	60	M. H. Knickerbocker, W. L. S., St. John, N. B.	0.828	5.08	1.85	37286 Genuine



BULLETIN No. 255—SPIRIT OF NITROUS ETHER.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.		Sp. Gr. at 15° C.	Ratio of vol. of Gas to vol. of Liquid.	Ethyl Nitrite per cent by weight.		

DISTRICT OF EASTERN QUEBEC—A. PELLETIER, INSPECTOR.

1912.													
Dec. 24	Spirit of Nitrous Ether	53306	L. J. Mareau, Rimouski.	6 oz.	50		L. McEwen Co., Montreal.		0.831	6.96	2.53	53306	Genuine.
" 24	"	53307	F. T. Lepage, Rimouski.	"	50	Howard & Sons, Stratford, Ont.			0.845	1.90	0.70	53307	Adulterated.
" 26	"	53310	E. O. Clouthier, Fraserville.	6 "	75	W. Brunet, Quebec.			0.946	0.00	0.00	53310	Adulterated. ethyl nitrite.

DISTRICT OF EASTERN TOWNSHIPS—J. J. COSTIGAN, ACTING INSPECTOR.

1913.													
Jan. 28	Spirit of Nitrous Ether.	51151	D. Richard, Sherbrooke, P.Q.	6 oz.	65	Lyman Knox Co., Montreal.			0.834	6.50	2.36	51151	Genuine.
" 29	"	51152	E. C. Drolet, atiock.	6 "	50	Nat. Drug & Chem. Co., Ltd.			0.857	5.12	1.90	51152	"
" 30	"	51153	J. C. Stockwell, Danville, P.Q.	6 "	50	Lymans Ltd.			0.844	5.80	2.11	51153	"
" 30	"	51154	J. A. Viger, Hyacinthe, P.Q.	6 "	45	"			0.857	2.47	0.90	51154	Adulterated.
" 30	"	51155	J. H. E. Brodeur, St. Hyacinthe, P.Q.	6 "	60	"			0.850	0.44	0.16	51155	"



## DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.

[illegible]

## DISTRICT OF OTTAWA—J. A. ROCKEY, INSPECTOR.

Dec.	23	Spirit of Nitrous Ether	51672	Chas. A. Adams Kemptville.	60	60	T. Chamberlain & Co., Prescott. Mfrs.	0.937	0.60	0.60	51672	Adulterated.	No.
"	24	"	51673	M. R. MacFarlane, Almonte.	60	60	Lymans, Ltd., Montreal.	0.871	1.82	0.66	51673	Adulterated.	
"	26	"	51674	The Ottawa Nat. Pharmacy, Ltd., Dallhousiest., Ottawa.	30	30	Vendors	0.831	2.67	0.97	51674		
"	27	"	51675	La Pharmacie Moderne, Ltd., Hall, P.Q.	70	70	Nat. Drug & Chem. Co., Ltd., Ottawa.	0.850	2.25	0.82	51675		
"	30	"	51676	D. J. Stalker, drug list, Ottawa.	60	60		0.857	5.20	1.89	51676	Genuine.	



BULLETIN No. 255—SPIRIT OF NITROUS ETHER.

Date of Collection.	Nature of Sample.	Name and Address of Vendor.	Quantity.	Cost.	Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).	Results of Analysis.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
							Sp. Gr. at 15° C.	Ratio of vol. of Gas to vol. of Liquid. Ethyl Nitrite per cent by weight.		
		</								

DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.

1912.												
Dec. 18	Spirit of Nitrous Ether	D. G. Blunker, Belleville.	6 oz.	20	Nat. Drug Co., Toronto.	.....	0.887	5.05	1.84	53021	Genuine.	
" 18	"	D. M. Waters, Belleville.	6 "	35	Vendor.	.....	0.875	5.50	2.00	53022	"	
" 18	"	O. G. Johns, Bourg.	6 "	50	Howard.	.....	0.845	3.74	1.36	53023	Adulterated.	
" 18	"	T. G. Watson, Port Hope.	6 "	60	Nat. Drug Co., Toronto.	.....	0.845	6.50	2.30	53024	Genuine.	
" 19	"	C. M. Moncur, Peterboro.	6 "	70	"	.....	0.864	4.75	1.73	53025	"	

DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

1913.											
Jan. 14	Spirit of Nitrous Ether	A. E. Gregory, Main St. East, Toronto.	158 6 oz.	30	Vendor.	.....	0.896	1.63	0.61	51571	Adulterated.
" 14	"	J. A. Gallagher, Jones and Gerard Sts., Toronto.	6 "	35	Drug Trading Co., Ltd., Toronto.	.....	0.959	0.00	0.00	51572	No ethyl nitrite.
" 14	"	W. A. Hertel, Lansdown and Wallace Sts., Toronto.	6 "	50	Nat. Drug & Chem. Co., Ltd., Toronto.	.....	0.919	0.31	0.14	51573	Adulterated.
" 14	"	Mackenzie Brown, 282 Roger Ave., Toronto.	6 "	35	Unknown.	.....	0.918	0.35	0.13	51574	"
" 14	"	C. J. Stoddart, Dundas St. West, Toronto.	1781 6 "	50	Lyman Bros. & Co., Ltd., Toronto.	.....	0.918	2.83	1.03	51575	"



SESSIONAL PAPER No. 14

DISTRICT OF WINDSOR JNO. TALBOT, INSPECTOR.

Jan. 2	Spirit of Nuts Essence of Ether	47906 W. T. Repby & Sons Co., St. Catharines	105	Nat. Drug Co., London.	0 841	5 21	1 91	47906 Genuine.
" 3	"	47908 T. H. Hyatt, Wood stock, Ont.	60	Nat. Drug Co., Hamilton.	0 825	7 18	2 61	47908 "
" 3	"	47913 E. A. Ross, Wood stock, Ont.	50	Vendor	0 872	10 20	3 73	47913 "
" 6	"	47918 E. C. Harvey, St. Catharines	60	Made from canon- ized ether.	0 828	3 99	1 47	47918 Adulterated.
" 6	"	47921 F. P. Reynolds, St. Catharines	60	Hyatt & Co., Toronto.	0 828	9 40	3 43	47921 Genuine.

DISTRICT OF MANITOBA H. ASLTON, ACTING INSPECTOR.

Jan. 31	Spirit of Nuts Essence of Ether	4801 C. A. Baird, Grand Forks, Manitoba	75	M. H. H. & Co., New York.	0 826	7 41	2 69	4801 Genuine.
" 31	"	4802 Brodhead, Grand Forks, Manitoba	45	"	0 813	10 69	3 67	4802 "
" 31	"	4803 F. J. Baird, Grand Forks, Manitoba	60	"	0 837	8 76	2 39	4803 "
" 31	"	4804 B. C. J. & Co., Grand Forks, Manitoba	60	"	0 831	9 65	3 58	4804 "
" 31	"	4805 F. P. Baird, Grand Forks, Manitoba	50	Nat. Drug Co., New York.	0 827	3 57	1 67	4805 Adulterated.

DISTRICT OF ROCKY MOUNTAINS THOS PARKER, INSPECTOR.

Jan. 31	Spirit of Nuts Essence of Ether	49793 Campbell, Grand Forks, Manitoba	75	Nat. Drug Co., New York.	0 845	2 88	1 06	49793 Adulterated.
" 31	"	49794 W. H. Baird & Co., Grand Forks, Manitoba	60	M. H. H. & Co., New York.	0 848	5 00	1 82	49794 Genuine.
" 31	"	49802 O. C. Baird, Grand Forks, Manitoba	75	Nat. Drug Co., New York.	0 829	8 25	3 00	49802 "
" 31	"	49803 P. O. Baird, Grand Forks, Manitoba	75	M. H. H. & Co., New York.	0 830	8 02	2 92	49803 "
" 31	"	49804 R. O. Baird, Grand Forks, Manitoba	60	M. H. H. & Co., New York.	0 844	7 56	2 75	49804 "



BULLETIN No. 255—SPIRIT OF NITROUS ETHER.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Name and Address of Manufacturer or Furnisher as given by the Vendor.		Cost.	Inspector's Report. (Is not an expression of opinion.)		Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Manufacturer	Furnisher.			Sp. Gr. at 15° C.	Ratio of vol. of Gas to vol. of Liquid	Ethyl Nitrite per cent by weight.		
1913.													
Jan. 22	Spirit of Nitrous Ether.	38484	W. E. Almas, Pen-der & Burrard St. Vancouver, B.C.	6 oz...			Vendor	Made from Mallinckrodt's concentrated nitrous ether.	0.829	8.68	3.16	38484	Genuine.
"	"	38485	Campbell's Ltd., Drug Co., Granville & Hastings Sts., Vancouver, B.C.	6 "			Vendors	"	0.832	9.92	3.61	38485	"
"	"	38486	Owl Drug Store, Dunsmuir & Granville Sts., Vancouver, B.C.	6 "					0.835	4.51	1.64	38486	Adulterated.
"	"	38487	Vancouver Drug Co., Granville St., Vancouver, B.C.	6 "			Vendors	Made from Mallinckrodt's concentrated nitrous ether.	0.830	10.41	3.78	38487	Genuine.
"	"	38488	Leslie Henderson, Georgia & Granville Sts., Vancouver, B.C.	6 "			Nat. Drug & Chem. Co., Vancouver, B.C.		0.822	9.54	3.47	38488	"

DISTRICT OF VANCOUVER—J. F. POWER, INSPECTOR.



## SESSIONAL PAPER No. 14

## DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR.

Jan.	28 Spirit of Nitrous Ether	53508 F. J. Williams, 613 6 oz., Fort St., Victoria, B.C.	35	Vendor		Made from concentrated nitrous ether supplied by Mallinckrodt, St. Louis, Missouri	0 832	6 25	2 27	53508 Genuine.
28	"	53509 D. E. Campbell, 650 6 oz., Fort St., Victoria, B.C.	75	Burgoyne Bar- bridges, London, Eng. Vendor.			0 846	5 61	2 06	53509 "
28	"	53510 Terry's Drug Store, 6 oz., 705 Fort St., Victoria, B.C.	50	Vendor.		Made from concentrated nitrous ether supplied by Mallinckrodt, St. Louis, Missouri	0 993	0 07	0 02	53510 Adulterated.
28	"	53511 Central Drug Store 6 oz., 702 Gates St., Victoria, B.C.	75	Lyman's Ltd., Montreal			0 839	4 26	1 53	53511 "
28	"	53512 John Cochran, 6 oz., 1300 Douglas St., Victoria, B.C.	75	May & Baker, London, Eng.			0 843	6 78	2 46	53512 Genuine



## APPENDIX T.

## BULLETIN No. 256—OLIVE OIL.

OTTAWA, March 28, 1913.

WM. HIMSWORTH, Esq.,

Acting Deputy Minister, Inland Revenue.

SIR,—I beg to hand you a report upon thirty-six samples of Olive Oil, purchased in certain districts of Canada by our Inspectors, during December of last year and January of this year.

Definitions for Edible Vegetable Oils were legalized by Order in Council of March, 1912; and are published as Circular G. 1002.

28.  
FOOD.

G. 1002.  
10,000.

## DEPARTMENT OF INLAND REVENUE.

OTTAWA, April 9, 1912.

## MEMORANDUM.

Under the authority of an Order of His Royal Highness, in Council, bearing date the twenty-eighth day of March ultimo, and in virtue of the provisions of the twenty-sixth section of the "Adulteration Act," the following standards of quality have been established for "Edible Vegetable Oils":—

## EDIBLE VEGETABLE OILS.

1. *Olive Oil; Sweet Oil*, is entirely a product of the fruit of the olive tree.  
 Its specific gravity, at 15·5°C., is not less than 0·9140 nor more than 0·9196.  
 Its specific refractive index, at 15·5°C., is not less than 1·4700 nor more than 1·4718.  
 Its Maumene number lies between 42 and 52.  
 Its iodine absorption number (using the Hubl solution) lies between 77% and 94%.  
 Its saponification number (Koettstorfer number) lies between 185·0 and 195·0.  
 It does not contain above 3·5% of free fatty acids.



## SESSIONAL PAPER No. 14

2. *Cotton seed oil* is the oil obtained from the seeds of cotton plants and subjected to refining processes. It is free from rancidity; has specific gravity, at 15.5°C., between 0.9216 and 0.9300; has a refractive index (at 25°C.) not less than 1.4700 and not more than 1.4725, and an iodine number not less than 104 nor more than 110 (Hubl solution).
3. *Salad oil.* Either of the above may be sold as salad oil; but when Cotton Seed Oil is offered as Salad Oil, the fact that the article is Cotton Seed Oil must be declared on the label.
4. Mixtures of *Cotton Seed Oil* with *Olive Oil* must be so declared on the label.

The standards above defined take effect on the 13th May proximo.

W. J. GERALD,

*Deputy Minister.*

Two samples of the present collection are found to be adulterated, as containing cotton seed oil.

The following synopsis of inspections of Olive Oil is instructive:—

Date.	Bull. no.	Total samples.	Percentage adulteration.
1889	67	75	40
1905	111	108	15
1908	179	82	19
1911	229	152	8
1913.....	256	36	6

It is apparent that there has been great improvement in the character of Olive Oil sold in Canada since the date of first inspection in 1889.

I beg to recommend publication of this report as Bulletin No. 256.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,

*Chief Analyst*







DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.

1913.									
Jan.	7	Olive Oil	51076 A. Poirais, 173 lots 105 Mount Royal Ave., E. Mont real.	E. & A. Jonas, Ka mart, France.			1 4704	Green	51076 Genuine.
"	7	"	51077 H. Gerson, 413 Co-3 lonial Ave. Mont- real.		Jas. Edelberg, Montreal.		1 4737	112 Brown	51077 Adulterated
"	7	"	51078 Albert Smith, 203 Prince Arthur St. W., Montreal.	Hedrick & Co Nico, France.			1 4704	Green	51078 Genuine.
"	7	"	51079	H. J. Heinz & Co.			Heinz Pure Olive 1 4706 Oil.		51079
"	7	"	51080 C. Solomon, 203 Vittie St., West, Montreal.				Superfine Olive Oil. 1 4704 Made in Italy.		51080

DISTRICT OF OTTAWA—A. RICKNEY, INSPECTOR

1912.									
Dec.	23	Olive Oil	51667 Mundle & Percival 3 lots 30 Kemptville.	E. Loubon, Nic-	Unknown		1 4742	110 Brown Deep Red	51667 Adulterated.
"	27	"	51668 La Pharmacie Mo- derne, Hull, P.Q.	24 lots 120 Nat. Drug & Chem. Co., Ottawa.	Mrs.		"Olympia" Olive 1 4704 Oil. Warranted absolutely pure.	Green	51668 Genuine.
"	30	"	51669 D. J. Stalcker, 3 lots 105 Druggist, Ottawa.				"N. & Dru. Co." 1 4704 Olive Oil. Guar- anteed absolutely pure.		51669
"	31	"	51670 T. E. Macdonald, 3 Somerset St., Ot- tawa.	75 H. J. Heinz, Pitts- burg, Pa.	Mfr.		"Heinz" pure 1 4706 Olive Oil.		51670
1913.									
Jan.	2	"	51671 Calderone & Bessio, 3 Bank St., Otta- wa.	75 A. Calderone, 11 Via Mandria Trianni Innesse Italy.			1 4698		51671



BULLETIN No. 256—OLIVE OIL.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.		Refractive Index at 15.5 C.	Iodine number.	Nitric Acid Colour test.	Halphen Colour test.		

DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

1912.	Dec. 20	Olive Oil. . . .	51576	W. Stansfield, 379 Church St., Toronto.	3 bts	75	. . . . .	B. U. Delaphma & Co., Toronto	Labelled sublimed extra double clarification. A. Gaillard & fils, Marseille, France	1.4704	. . . . .	Green . . . . .	51576	Genuine.
"	20	" . . . .	51577	The Carter Drug Co., 697 Queen St. West, Toronto.	3 "	30	. . . . .	Bottled by Vendors.	Labelled Huile D'Olive surfine clarifée.	1.4708	. . . . .	" . . . . .	51577	"
"	24	" . . . .	51578	A. G. T. Robinson, 898 Queen St., East, Toronto.	3 "	75	. . . . .	W. G. Patrick & Co., Toronto.	Labelled Huile D'Olive Virge. Doublement clarifiée B. Fong, Bordeaux, France	1.4706	. . . . .	" . . . . .	51578	"
"	27	" . . . .	51579	J. H. Sloan, 528 Yonge St., Toronto.	1 pt.	50	. . . . .	Drug Trading Co. Ltd., Toronto.	. . . . .	1.4707	. . . . .	" . . . . .	51579	"
"	27	" . . . .	51580	W. H. Worden, 618 Yonge St., Toronto.	3 "	65	. . . . .	Lynan Bros. & Co., Ltd., Toronto.	. . . . .	1.4704	. . . . .	" . . . . .	51580	"



SESSIONAL PAPER No. 14

DISTRICT OF VANCOUVER J. F. POWER, INSPECTOR.

1913.  
Jan. 25 Olive Oil.

38489	London Grocery & Coldw. Co., Fairview Branch, Vancouver, B.C.	75	Choss & Blackwell, London, Eng.	Guaranteed genuine Olive Oil from the District of London	14703	Green	38489	Genuine
38490	Grocery & Coldw. 5th Ave. & Granville, Vancouver, B.C.	75	John V. Hutton, Jr., Van. City, Ind.	This Oil is made from selected fine Olives and is guaranteed to be pure	14704		38490	
38491	Harrison's Drug Store, 7th Ave. & Granville Sts., Vancouver, B.C.	75	Unknown	Van. City	14704		38491	
38492	Broadway Pharmacy, Vancouver, B.C.	75	Angus, Girdle	H. Lyman & Co., Portland, Me., U.S.A.	14704		38492	
38493	B. J. & Co., 1st Ave. & Granville, Vancouver, B.C.	105	Porter, S. J. A. T. & Co., Van. City, Ind.	Guaranteed pure Olive Oil	14704		38493	

DISTRICT OF VICTORIA J. F. POWER, INSPECTOR.

49289	W. & Co., 117 Commercial St., Victoria, B.C.	75	W. & Co., 117 Commercial St., Victoria, B.C.	Guaranteed pure Olive Oil	14703		49289	Genuine
49290	T. & Co., 117 Commercial St., Victoria, B.C.	75	W. & Co., 117 Commercial St., Victoria, B.C.	Guaranteed pure Olive Oil	14703		49290	
49291	H. & Co., 117 Commercial St., Victoria, B.C.	75	W. & Co., 117 Commercial St., Victoria, B.C.	Guaranteed pure Olive Oil	14703		49291	
49292	H. & Co., 117 Commercial St., Victoria, B.C.	75	W. & Co., 117 Commercial St., Victoria, B.C.	Guaranteed pure Olive Oil	14703		49292	
49293	H. & Co., 117 Commercial St., Victoria, B.C.	75	W. & Co., 117 Commercial St., Victoria, B.C.	Guaranteed pure Olive Oil	14703		49293	



APPENDIX U.

BULLETIN No. 257—MILK POWDERS AND CONDENSED MILK.

OTTAWA, March 31, 1913.

WM. HIMSWORTH, Esq.,  
Acting Deputy Minister,  
Inland Revenue.

SIR,—I beg to submit herewith a report dealing with thirty (30) samples sold as condensed milks—of which number seven (7) are condensed without sugar, and should be offered as evaporated milk (see G. 934); and fifteen (15) samples of milk powders.

Condensed milk is required by Order in Council of November 3, 1910, to meet the following requirements:—

‘Condensed milk is milk from which a considerable portion of water has been evaporated, and to which sugar has been added. It contains not less than 28 per cent of milk solids, and not less than 7·7 per cent of milk fat.’

No. 49150 contains only traces of fat; and is made from skimmed milk.

No. 38335 contains only 3·85 per cent of fat, and is made from milk which has been partly skimmed.

The labels of these samples claim that they are genuine whole milk products. Hence they must be regarded as adulterated under the Act.

In three samples (Nos. 49146-7-8) the fat is slightly below standard. The deficiencies, however, are not great, and may not exceed such natural variations as season and locality introduce. In eight (8) samples the fat varies from 5·80 to 7·12 per cent. These must be regarded as adulterated under the Act, although they represent brands which generally give a good account of themselves. It is to be noted that, even within the limits of the present collection, the average results for such of these brands as are represented by several samples is creditable.

Thus, Borden’s Condensed Milk is represented by the following:—

Sample No. 49641.. . . .	Fat: 8·08 per cent.
“ 49642.. . . .	“ 8·85 “
“ 49656.. . . .	“ 6·35 “
“ 49657.. . . .	“ 9·05 “
“ 49668.. . . .	“ 7·10 “
“ 49669.. . . .	“ 6·95 “
“ 38331.. . . .	“ 8·40 “
“ 38332.. . . .	“ 9·72 “
“ 49145.. . . .	“ 9·05 “
“ 49147.. . . .	“ 7·55 “

Mean of 10 samples—8·11 per cent.

The Reindeer Brand is represented by:—

Sample No. 49649.. . . .	Fat: 6·80 per cent.
“ 49667.. . . .	“ 7·87 “
“ 38336.. . . .	“ 7·12 “
“ 49146.. . . .	“ 7·42 “

Mean for 4 samples—7·30 per cent.

The St. Charles Condensed Milk shows as follows:—

Sample No. 49655.. . . .	Fat: 7·90 per cent.
“ 49666.. . . .	“ 8·00 “
“ 38334.. . . .	“ 7·05 “
“ 49148.. . . .	“ 7·38 “
“ 49153.. . . .	“ 7·82 “

Mean of 5 samples—7·63 per cent.



## SESSIONAL PAPER No. 14

## Summary of condensed milk samples:—

Meet requirements in full.. . . .	10 samples.
Meet requirements, nearly.. . . .	3 “
Below standard more than 0.5 per cent.. . . .	8 “
Adulterated as skimmed.. . . .	2 “
Total.. . . .	23 “

## Evaporated milk is defined as follows:—

‘Is milk from which a considerable portion of water has been evaporated, and contains not less than 20 per cent of milk solids, and not less than 7.20 per cent of milk fat.’

Out of seven (7) samples, only one fails to meet the required standard, viz.: No. 38333, which falls 0.70 too low in fat, and 2.23 too low in milk solids.

Two other samples (38328 and 41151) are technically adulterated as being labelled ‘Cream.’ The explanatory words ‘An unsweetened condensed milk,’ appear in small type upon the label, but are comparatively inconspicuous.

Our standards require cream to contain at least 18 per cent of milk fat; and condensed cream to contain at least 25 per cent of fat (G. 934).

Milk powder is defined by standards published in December, 1910, (see G. 934) as follows:—

The soluble powder product made from milk, and contains, unless otherwise specified, not less than ninety-five (95) per cent of milk solids, and not less than twenty-six (26) per cent of milk fat.

All samples obtained by our inspectors appear to be the products of one manufacturer, and to be sold under the names *Trumilk* and *Milk Stock*, the first being a whole milk product; the second, a skimmed milk. A single sample (No. 41165) sold as modified milk powder, represents an intermediate product, the result of drying a partly skimmed milk.

Ten samples sold as *Trumilk* and guaranteed as whole milk powders averages 26.76 per cent of fat; and vary among themselves as follows:—28.10, 27.61, 27.53, 27.48, 27.36, 27.23, 26.84, 26.61, 25.66, 25.22. With exception of the last two samples they meet the requirements of our standard; and the deficiency in the ninth sample is less than one-half of one per cent.

One sample only (No. 38326) falls more than one per cent below the standard, (deficiency: 2.78 per cent) and is evidently manufacture from a milk of inferior quality.

Milk stock (skimmed milk) appears to be of very uniform quality, and is true to the claims made for it.

The collection herein was made in April and May of last year, and should have been reported long ago.

Press of other work caused it to be delayed, in favour of work which could not so well be held over.

I beg to recommend publication of this report as Bulletin No. 257.

I have the honour to be, Sir,

Yours faithfully,

A. MCGILL,  
Chief Analyst



Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NELSON—

1912.								
April 18	Condensed Milk.	49641	Cooper & Christine, Vernon, B.C.	3 tms.	45	Borden Condensed Milk Co., Tillsonburg.		
" 18	"	49642	"	3 "	45	"		
" 18	"	49649	W. H. Smith, Vernon, B.C.	3 "	45	Reindeer, Ltd., Truro, N.S.		
" 18	"	49655	W. R. Megaw, Vernon, B.C.	3 "	40	St. Charles Condensing Co., Ingersoll.		
" 18	"	49656	"	3 "	40	Borden's Condensed Milk Co., Tillsonburg		
" 18	"	49657	"	3 "	45	"		
May 2	"	49666	Hudsons Bay Co., Nelson, B.C.	3 "	40	St. Charles Condensing Co., Ingersoll.		
" 2	"	49667	"	3 "	45	Reindeer, Ltd., Truro, N.S.		
" 2	"	49668	Bell Trading Co., Nelson, B.C.	3 "	45	Borden's Condensed Milk Co., Tillsonburg.		
" 2	"	49669	"	3 "	45	"		

DISTRICT OF VANCOUVER—

May 1	Condensed Milk.	38331	Woodward Dept. Stores, Vancouver, B.C.	3 tms.	40	Borden & Co., New York,		"Gold Seal" Brand prepared from pure cream milk.
" 1	"	38332	Dom. Grocery, Vancouver, B.C.	3 "	45	"		"Eagle" Brand Condensed milk combined with best refined sugar
" 1	"	38333	F. Fillion, Vancouver, B.C.	3 "	15	St. Charles Milk Co., Ingersoll.		Prepared from pure rich milk only.
" 1	"	38334	W. Clark, Vancouver, B.C.	3 "	40	St. Charles Condensing Co., Ingersoll.		Prepared from finest milk and best granulated sugar.
" 1	"	38335	A. C. Barbig, Fairview, Vancouver.	3 "	45	J. Malcolm, Son, St. Georges, Ont.		Every can guaranteed until used.
" 6	"	38336	J. S. Hirst, Vancouver, B.C.	3 "	45	Reindeer Ltd., Truro, N.S.		Every can guaranteed.
" 6	"	38337	D. B. Irwin, Vancouver, B.C.	3 "	15	Dom. Canners Ltd., Hamilton.		"Quaker" Brand.



SESSIONAL PAPER No. 14  
CONDENSED MILK.

Results of Analyses										Remarks and Opinions of the Chief Analyst.
Density	Weight	Total Solids	Ash	Fat	Milk Sugar	Lactose in 100 cc. when added	Calculated on 9% basis.		Fat in ori- ginal milk.	
							Carbhydrate	Protein.		

THOS. PARKER, INSPECTOR.

	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
1-3181	25.45	74.55	1.80	8.05		59.50			38341	Milk adulterated.
1-3129	26.10	73.90	1.66	8.80		58.50			38342	
1-3108	50.54	69.47	1.82	6.80		56.60			38343	Fat too low.
				7.50					38344	Milk adulterated with fat.
1-3123	27.50	72.50	1.75	6.50		58.20			38345	Fat too low.
1-3009	26.80	73.20	1.61	6.00		57.10			38346	Milk adulterated.
1-3080	26.90	73.10	1.87	8.00		57.50			38347	
1-3076	26.75	73.25	1.60	7.87		58.50			38348	
				7.10					38349	Fat too low.

J. F. POWER, INSPECTOR.

1-3129	26.45	73.55	1.72	8.40		57.50			38350	Milk adulterated.
1-2950	27.28	72.72	1.86	6.72		56.50			38351	
1-0687	76.33	23.77	1.50	6.50	9.93		1.00	3.38	38352	Not a milk.
1-2994	29.58	70.42	1.88	7.05		56.45			38353	Fat too low.
1-3128	30.40	69.60	1.70	3.85		58.70			38354	Partially skimmed milk adulterated.
1-3044	29.80	70.20	1.58	7.12		56.40			38355	Fat too low.
1-0748	71.30	28.70	1.80	7.80	10.07		2.42	3.36	38356	Milk adulterated. Not a milk.



4 GEORGE V., A. 1914

BULLETIN No. 257—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cost.	Name and Address of Manufacturer or Furnisher, as given by the Vendor		Inspector's Report. (Is not an expression of opinion).
						Manufacturer.	Furnisher.	
DISTRICT OF VANCOUVER—								
1912.								
May 6	Condensed Milk.	38338	T. W. Turner, Vancouver, B.C.	3 tins.	45	Pacific Coast Condensing Co., Seattle, Wash.		We guarantee this can containing no substance but fresh pure sweet milk.
" 6	"	38339	Webber & Webber, Vancouver, B.C.	3 "	25	Canada First Mfg. Co.		Every can guaranteed.
" 6	"	38340	A. & C. Grocery, Vancouver, B.C.	3 "	30	B. C. Milk Products Co., New Westminster, B.C.		Complies with all requirements of Pur Food Laws.

## DISTRICT OF VICTORIA—

April 23	Condensed Milk.	49145	Windsor Grocery Co., Ltd., Victoria, B.C.	3 tins	45	Borden's Condensed Milk Co., New York		"Gold Seal".
" 23	"	49146	"	3 "	45	Reindeer, Ltd., Truro, N.S.		"Reindeer" ..
" 24	"	49147	The West End Grocery Co., Ltd., Victoria, B.C.	3 "	45	Borden's Condensed Milk Co., New York		"Eagle" ..
" 25	"	49148	"	3 "	35	St. Charles Condensing Co., Ingersoll.		"Purity" ..
" 21	"	49149	"	3 "	35	Aylmer Condensed Milk Co., Aylmer, Ont.		"Canada First".
" 24	"	49150	Harrison & McDonald, Victoria, B.C.	3 "	30	.....	W. O. Wallace, Victoria, B.C.	"Coach" ..
" 25	"	49151	W. B. Hall, Victoria, B.C.	3 "	25	Pacific Coast Condensed Milk Co., Seattle, Wash.		"Carnation"
" 25	"	49152	D. H. Ross & Co., Victoria, B.C.	3 "	40	Truro Condensed Milk Co., Truro, N.S.		"Mayflower".
" 25	"	49153	Copas & Young, Victoria, B.C.	3 "	40	St. Charles Condensing Co., Ingersoll.		"Purity" ..
" 25	"	49154	E. G. Bailey, Victoria, B.C.	3 "	15	Borden's Condensed Milk Co., New York		"Peerless" ..



## SESSIONAL PAPER No. 14

## CONDENSED MILK.

## Results of Analysis.

Density.	Water.	Total Solids.	Ash.	Fat.	Milk Sugar.	Loss to 500 cc. within water.	Calculated on 9% basis.		No. of sample.	Remarks and Opinion of the Chief Analyst.
							Concentra- tion.	Fat in per- cent milk.		
1.0587	74.98	25.02	1.63	8.35	9.78		1.95	4.50	38338	Adulterated, in being labelled Cream. Is a good evaporated milk.
1.0537	74.13	25.87	1.65	7.35	10.49		2.11	3.57	38339	Meets standard. Non-sugared.
1.0704	70.57	29.43	1.39	7.80	9.01		2.40	3.24	38340	

## Concluded.

## D. O'SULLIVAN, INSPECTOR.

1.2992	27.15	72.85	1.86	9.05	55.90				49145	Meets standard.
1.3049	29.03	70.97	1.75	7.42	57.22				49146	Slightly below standard in fat loss.
1.3158	26.93	73.07	1.52	7.55	59.22				49147	
1.3130	27.62	72.38	1.70	7.38	58.92				49148	
1.3081	28.30	71.70	1.61	5.80	57.85				49149	Fat too low. Adulterated.
1.3644	30.00	70.00	1.72	traces	63.15				49150	Adulterated.
1.0594	74.38	25.62	1.42	8.95	9.83	.....	2.01	4.84	49151	Adulterated, in being labelled Cream. Is a good quality milk.
1.3053	28.60	71.40	1.61	6.50	56.35				49152	Fat too low. Adulterated.
1.2986	29.50	70.50	1.88	7.82	54.20				49153	Meets standard.
1.0643	72.60	27.40	1.65	7.90	10.80		2.23	3.33	49154	non-sugared



Date of Collection.	Nature of Sample.	No. of Samples.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF MANITOBA—

1912.								
April 16	Trumilk..	48646	Duncan & Hunter, St. James.	3 tins.	45	Canadian Milk Products, Ltd., Toronto,	Unknown	
" 17	"	48647	W. A. Bartram, Portage Ave., Winnipeg.	3 "	38	" "	"	
" 17	"	48648	J. Paterson, Portage Ave., Winnipeg.	3 "	38	" "	"	
" 18	"	48649	A. Hendry, Portage Ave., Winnipeg.	3 "	60	" "	"	
" 18	"	48650	R. F. Graham, Portage Ave., Winnipeg.	3 "	45	" "	"	

DISTRICT OF CALGARY—

May 7	Milk Powder.	44165	Jackson & Co., Lethbridge.	3 tins.	75	Canadian Milk Products, Ltd., Toronto.		
" 10	Milk Stock	44166	Donnelly Watson & Browne Co., Ltd., Calgary.	3 "	30	" "		Milk Stock....
" 10	Trumilk...	44167	" " "	3 "	30	" "		Trumilk.....
" 10	Milk Stock	44168	John Irwin Co., Ltd., Calgary.	3 "	40	" "		Milk Stock..
" 10	Trumilk...	44169	" " "	3 "	40	" "		Trumilk.....

DISTRICT OF NELSON—

April 18	Milk Powder.	49654	W. R. Megaw.	3 tins.	45	Canadian Milk Products, Ltd., Toronto.		
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SESSIONAL PAPER No. 14

## MILK POWDERS.

Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
Moisture.	Total Solids.	Ash.	Fat.	Milk Sugar.	Proteids.		

A. C. LARIVIERE, INSPECTOR.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
1.93	98.07	5.65	27.53	36.97	27.92	48646	Whole milk. Genuine.
2.04	97.96	5.89	27.48	36.55	28.04	48647	" "
1.81	98.19	6.28	26.84	33.40	31.67	48648	" "
2.13	97.87	5.75	26.61	33.20	32.21	48649	" "
1.14	98.96	5.69	27.23	34.30	31.64	48650	" "

R. W. FLETCHER, INSPECTOR.

2.34	97.66	7.05	11.28	40.34	38.99	44165	Modified milk. Partially skimmed. Genuine.
4.64	95.36	7.21	0.91	45.55	41.69	44166	Separated milk. Genuine.
1.73	98.27	5.79	27.36	36.87	28.25	44167	Whole milk. Genuine.
4.87	95.13	7.28	0.92	44.67	42.24	44168	Separated milk. Genuine.
1.98	98.02	5.90	27.61	33.67	30.84	44169	Whole milk. Genuine.

THOS. PARKER, INSPECTOR

2.98	97.02	5.37	28.10	33.75	29.79	49654	Whole milk. Genuine.
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Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VANCOUVER—

1912.								
May	1	Milk Powder.	38326 H. A. Edgett, Vancouver, B.C.	3 tins.	45	Canadian Milk Products, Ltd., Toronto.	.....	Trumilk contains no sugar preservatives, chemicals or adulterations of any kind.
"	1	Milk Powder.	38327 London Grocery Co., Vancouver, B.C.	3 "	45	" "	.....	Milkstock contains no sugar preservatives, chemicals or adulterations of any kind.

DISTRICT OF VICTORIA—

April	24	Trumilk...	49155 The West End Grocery Co., Ltd., Victoria, B.C.	3 tins.	45	Canadian Milk Products, Ltd., Toronto.	.....	.....
"	24	Milk Stock	49156 Harrison & McDonald, Victoria, B.C.	3 "	40	" "	.....	.....



SESSIONAL PAPER No. 14

MILK POWDERS.

Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
Moisture.	Total Solids.	Ash.	Fat.	Milk Sugar.	Proteids.		

J. F. POWER, INSPECTOR.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
1.55	98.45	5.94	23.22	36.55	32.64	38326	Whole milk. Slightly below standard in fat.
5.27	94.45	7.37	0.96	45.05	41.35	38327	Separated milk. Genuine.

D. O'SULLIVAN, INSPECTOR.

3.96	96.04	5.64	25.66	34.32	31.64	49155	Whole milk. Genuine.
5.43	94.57	7.37	1.32	44.67	41.21	49156	Separated milk. Genuine.



